abcam

ab182422

Anti-CD163 antibody [EPR19518]

Anti-CD163 antibody [EPR19518] (ab182422) is a rabbit monoclonal antibody detecting CD163 in **Western Blot, Flow Cytometry, IHC-P, IHC-Fr, mIHC**. Suitable for **Human, Mouse, Rat**.

- Clone EPR19518 is the most cited clone to CD163
- Multiplex IHC validated on the Leica BOND® MAX using Opal reagents
- Biophysical QC for unrivalled batch-batch consistency
- Over 500 publications

Rat version of this clone also available as ab289979. Same clone, same staining pattern, different species antibody backbone.
Learn more about chimeric antibodies

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR19518
Purification technique	Affinity purification Protein A
Concentration	0.591 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-Fr

Tested

Species	Mouse
Dilution info	1/200
Notes	Antigen retrieval: Heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/60 - 1/100
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

mIHC

Tested

Species	Human
Dilution info	1/300 - 1/8000

Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information CD163

Function	Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells. After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Anti-CD163 antibody [EPR19518] (ab182422) was developed by Abcam using patented rabbit monoclonal antibody technology and is validated for use in Flow Cyt, IHC-Fr IHC-P, WB and mIHC.

Anti-CD163 antibody [EPR19518] (ab182422) was first used in a scientific publication in 2014 and has been cited over 399 times in peer reviewed journals. It's performance in IHC in human, mouse and rat samples is trusted by the scientific community.

Abcam's high quality manufacturing and validation processes ensure Anti-CD163 antibody [EPR19518] (ab182422) has high sensitivity and specificity alongside high lot-to-lot consistency and reproducibility.

Anti-CD163 antibody [EPR19518] (ab182422) has 17 independent reviews from customers.

Anti-CD163 antibody [EPR19518] (ab182422) specifically detects CD163 (UniProt ID: Q2VLH6; Molecular weight: 118kDa) and is sold in a convenient trial size to enable initial testing (20 µL) and larger sizes for subsequent scaling up experiments (100 µL and 1 mL).

Conjugation-ready, carrier free format available for antibody clone EPR19518 - ab213612.

Antibody clone EPR19518 is also available pre-conjugated to a variety of labels for your convenience - Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 488, Alexa Fluor® 647, Biotin, PE (ab281746, ab282114, ab313665, ab313666, ab314941, ab314947).

Recombinant antibody to CD163 is involved in conditions like rheumatoid arthritis and atherosclerosis, where it helps regulate inflammation. Top cited clone on the market

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD163 known also as hemoglobin scavenger receptor is a membrane glycoprotein with a molecular weight of approximately 130 kDa. It is predominantly expressed by monocytes and macrophages which are types of immune cells. Located on the cell surface CD163 functions as a receptor that aids in the clearance of hemoglobin-haptoglobin complexes playing a critical role in maintaining iron

	homeostasis and protecting tissues from oxidative damage. CD163 is not limited to human cells only; researchers often study its function using animal models such as chimeric rodents and chimeric rats.
Biological function summary	CD163 participates in anti-inflammatory processes and is linked to immune modulation. It plays a pivotal role in the resolution of inflammation and promotes the removal of damaged cells and tissues. Through its involvement in the endocytic pathway CD163 interacts with various ligands facilitating interactions with other proteins. In the context of research CD163 functionality can be analyzed using techniques like CD163 IHC CD163 ELISA and CD163 stain in both human and mouse models.
Pathways	CD163 is integral to the inflammation and immune response pathways. It participates in the heme-oxygenase pathway which is essential in the breakdown of heme into biliverdin free iron and carbon monoxide. This pathway involvement is tightly linked with heme oxygenase-1 (HO-1) a cytoprotective enzyme that helps to mitigate inflammatory responses. The interaction with haptoglobin and related proteins provides further insight into its regulatory roles within the immune system.
Associated diseases and disorders	CD163 is associated with conditions like atherosclerosis and acute inflammation disorders. Its elevated levels indicate macrophage activation observed in chronic inflammations such as cardiovascular diseases. In atherosclerosis CD163 expression correlates with the uptake of oxidized LDL connecting it to progression of the disease. Additionally soluble CD163 levels serve as a biomarker in conditions like chronic liver disease where it is linked to macrophage activation and fibrosis. Within these disorders proteins like LDL and inflammatory cytokines are closely associated with CD163 function and regulation.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

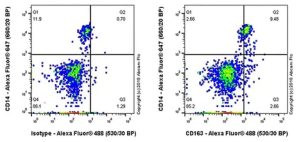
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

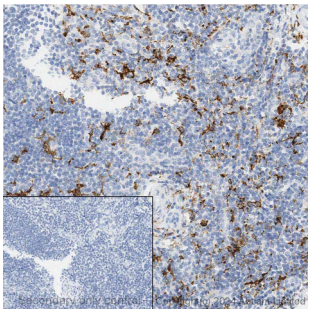
31 product images



Flow Cytometry - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Flow Cytometry staining using rabbit Anti-CD163 antibody

Flow cytometry analysis of human PBMC cells (Human peripheral blood mononuclear cell) labeling with ab182422 at 1/60 dilution, 11.23 µg/ml (red). Goat anti rabbit IgG (Alexa Fluor® 488, ab150081) was used as the secondary antibody at 1/2000.

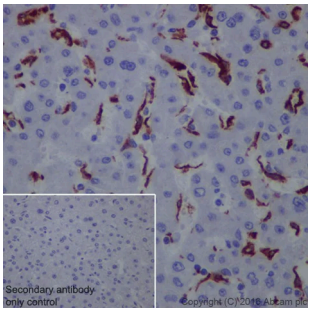


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

This data was developed using the same antibody clone in a different buffer formulation (ab213612).
Immunohistochemical analysis of formalin fixed paraffin embedded Human tonsil labelling CD163 with ab213612 at a concentration of 0.5 µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with a OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was performed with DISCOVERY cell conditioning solution (CC1) 100°C, pH8.5 for 32mins.

ab213612 anti CD163 antibody EPR19518 was incubated for 16mins at 37°C. Sections were counterstained with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

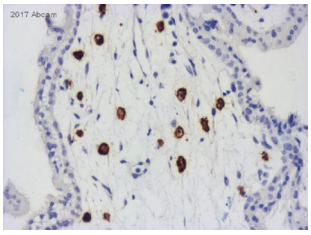
Customers are encouraged to optimise antigen retrieval conditions, antibody concentration, incubation times and temperature for best results in their own IHC assay workflow (automated and manual)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling CD163 with ab182422 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Kupffer cells of human liver is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



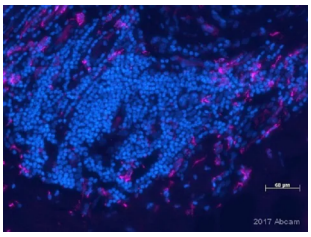
This image is courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Formaldehyde-fixed, non-permeabilized human first trimester placenta tissue stained for CD163 with ab182422 (16 hours, 4°C at a 1/250 dilution) in immunohistochemical analysis. A Pig anti Rabbit polyclonal biotin conjugate was used as the secondary at a 1/250 dilution.
Heat mediated antigen retrieval buffer/enzyme used: Sodium citrate.

Blocking step: 5% BSA for 30 mins at 22°C.



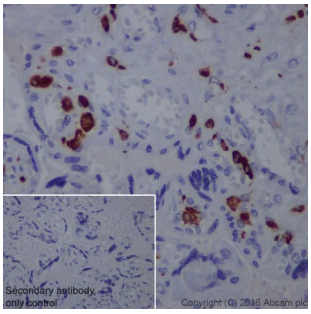
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

10% Formalin-fixed, non-permeabilized human breast carcinoma tissue stained for CD163 with ab182422 (12 hours, 4°C at a 1/200 dilution) in immunohistochemical analysis. A Donkey anti Rabbit IgG polyclonal AlexaFluor®647 conjugate was used as the secondary at a 1/200 dilution (red).
Heat mediated antigen retrieval buffer/enzyme used: Tris/EDTA pH 9.0.

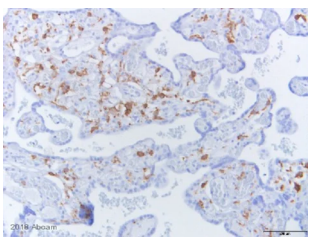
Blocking step: 5% serum for 1 hour at 22°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling CD163 with ab182422 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Hofbauer cells in human placenta is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



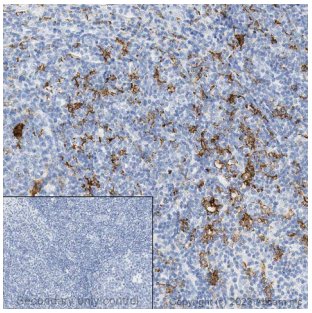
This image is courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

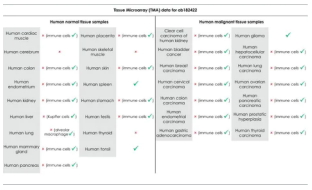
Formaldehyde-fixed, non-permeabilized human placenta tissue stained for CD163 with ab182422 (12 hours, 4°C at a 1/200 dilution) in immunohistochemical analysis. A Goat anti Rabbit polyclonal HRP conjugate was used as the secondary at a 1/200 dilution.
Heat mediated antigen retrieval buffer/enzyme used: pH 6.0 citrate buffer.

Blocking step: 3% serum for 30 mins at 20°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Immunohistochemical analysis of formalin fixed paraffin embedded human tonsil labelling CD163 with ab182422 at 2 µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with an OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was conducted for 32min with ULTRA cell conditioning solution (CC1 pH8.5). ab182422 anti CD163 antibody was incubated at 37°C for 16min. Sections were counterstained is with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Tissue Microarrays stained for "Anti-CD163 antibody [EPR19518]" using "ab182422"in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab182422 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

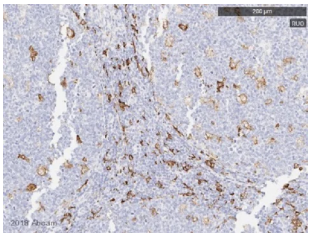
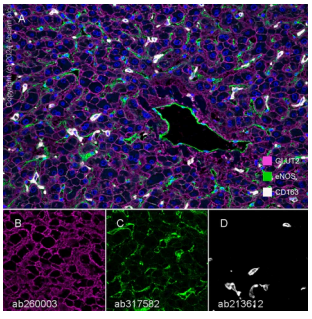


Image courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Formaldehyde-fixed, non-permeabilized human tonsil tissue stained for CD163 with ab182422 (30 mins at a 1/400 dilution) in immunohistochemical analysis. A Goat polyclonal HRP conjugate was used as the secondary.
Heat mediated antigen retrieval buffer/enzyme used: pH 9.0 EDTA.

Blocking step: 1% ab64226 for 10 mins at RT.



Multiplex immunohistochemistry - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Multiplex immunohistochemistry staining of human liver using rabbit Anti-CD163 antibody

This data was developed using ab213612, the same antibody clone in a different buffer formulation.

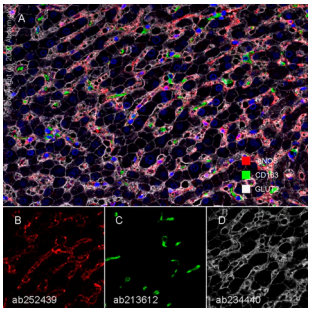
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver labelling GLUT2 with ab260003 at 1/1000 (B), eNOS with ab317582 at 1/500 dilution (C) and CD163 with ab213612 at 1/8000 dilution (D). Opal Polymer HRP Ms + Rb was used as a secondary antibody, and Nuclear DNA was labeled with DAPI (shown in blue). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-GLUT2 (magenta; Opal™690), anti-eNOS (green; Opal™520) and anti-CD163 (gray; Opal™570) on human liver.
Panel B: anti-GLUT2 staining membrane of hepatocytes in human liver.

Panel C: anti-eNOS staining endothelium in human liver.
Panel D: anti-CD163 staining Kupffer cells in human liver.

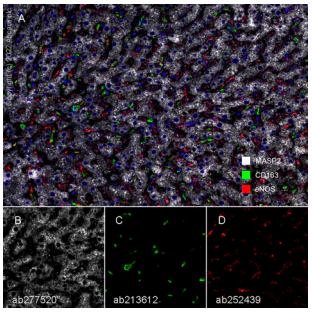
The section was incubated in three rounds of staining: in the order of ab260003, ab317582 and ab213612 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



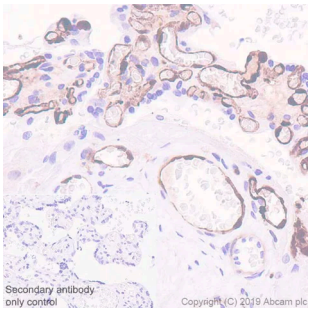
Multiplex immunohistochemistry - Anti-CD163 antibody [EPR19518] (ab182422)

Fluorescence multiplex immunohistochemical analysis of human liver (formalin-fixed paraffin-embedded section). Panel A shows merged staining of anti-eNOS stained on endothelial cells (ab252439; red; Opal™570) at 1:1000 (1.004 µg/ml) [Panel B], anti-CD163 stained on Kupffer cells (ab213612; green; Opal™520) at 1:8000 (0.13 µg/ml) [Panel B], and anti-Glucose Transporter GLUT2 stained on membrane of hepatocytes (ab234440; gray; Opal™690) at 1:200 (3.005 µg/ml) [Panel D] on human liver. DAPI was used as a nuclear counter stain. Followed by Opal Polymer HRP Ms + Rb secondary. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. The section was incubated in three rounds of staining: in the order of ab234440, ab213612, and ab252439 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins was used. This data was developed using ab213612, the same antibody clone in a different buffer formulation.



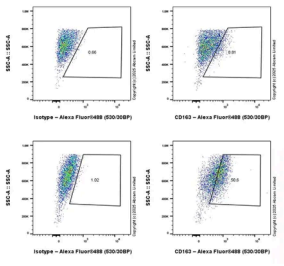
Multiplex immunohistochemistry - Anti-CD163 antibody [EPR19518] (ab182422)

Fluorescence multiplex immunohistochemical analysis of human liver (formalin-fixed paraffin-embedded section). Panel A shows merged staining of anti-MASP2 stained on cytoplasm of hepatocytes (ab277520; gray; Opal™690) at 1:100 (5.22 µg/ml) [Panel B] , anti-CD163 stained on Kupffer cells (ab213612; green; Opal™520) at 1:8000 (0.13 µg/ml) [Panel C], and anti-eNOS tained on endothelial cells (ab252439; red; Opal™570) at 1:200 (3.005 µg/ml) [Panel D] on human liver. DAPI was used as a nuclear counter stain. Followed by Opal Polymer HRP Ms + Rb secondary. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. The section was incubated in three rounds of staining: in the order of ab277520, ab213612, and ab252439 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins was used. This data was developed using ab213612, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Immunohistochemical analysis of formalin fixed paraffin embedded human tonsil labelling CD163 with ab182422 at 2 µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with an OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was conducted for 32min with ULTRA cell conditioning solution (CC1 pH8.5). ab182422 anti CD163 antibody was incubated at 37°C for 16min. Sections were counterstained is with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

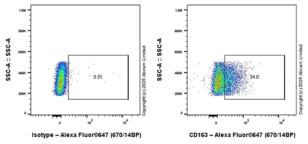


Flow Cytometry - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) treated with 50 ng/mL IL10 for 24hours (Lower) / Untreated control (Upper) using rabbit Anti-CD163 antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) treated with 50 ng/mL IL10 for 24 hours (Lower) / Untreated control (Upper) cells labelling CD163 with ab182422 at 1/100 compared with a Rabbit monoclonal IgG (ab172730) /Left isotype control and secondary antibody).
Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 was used as the secondary antibody.

Gated on viable CD14 positive cells.

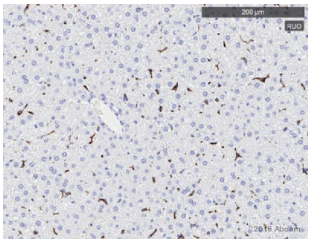


Flow Cytometry - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Flow Cytometry staining of SU-DHL-1 (human histiocytic lymphoblast-like cell) using rabbit Anti-CD163 antibody

Flow cytometric analysis of SU-DHL-1 (human histiocytic lymphoblast-like cell) cells labelling CD163 with ab182422 at 1/100 compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and secondary antibody).
Goat Anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 was used as the secondary antibody.

Gated on viable cells.

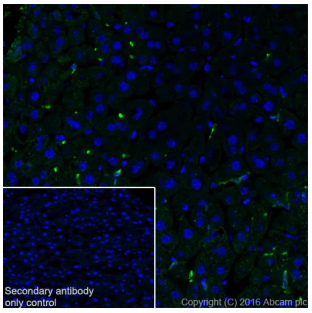


This image is courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Formaldehyde-fixed, non-permeabilized mouse liver tissue stained for CD163 with ab182422 (45 mins at a 1/400 dilution) in immunohistochemical analysis. A Rabbit polyclonal HRP conjugate was used as the secondary.
Heat mediated antigen retrieval buffer/enzyme used: pH 6.0 citrate.

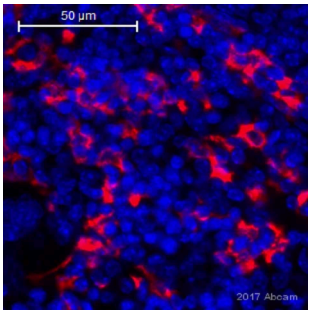
Blocking step: 1% ab64226 for 10 mins at RT.



Immunohistochemistry (Frozen sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Frozen sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse liver tissue labeling CD163 with ab182422 at 1/200 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). The result showed some cytoplasmic staining on mouse liver. The nuclear counterstain is DAPI (blue). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 at 1/1000 dilution. Antigen retrieval: Heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).



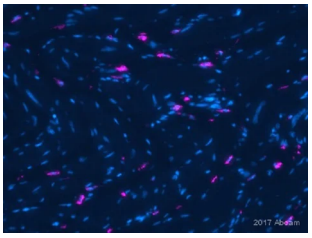
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

10% NBF-fixed mouse spleen tissue stained for CD163 with ab182422 (18 hours at a 1/250 dilution) in immunohistochemical analysis. A Goat anti Rabbit IgG polyclonal Alexa Fluor® 647 conjugate was used as the secondary at a 1/600 dilution (red).
Heat mediated antigen retrieval buffer/enzyme used: Tris/EDTA pH 9.0.

Blocking step: 20% serum for 1 hour at RT.



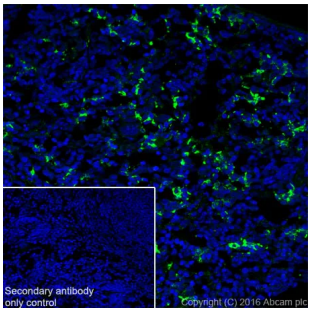
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

10% NBF, non-permeabilized rat muscle tissue stained for CD163 with ab182422 (12 hours, 4°C at a 1/200 dilution) in immunohistochemical analysis. A Donkey anti Rabbit IgG polyclonal AlexaFluor®647 conjugate was used as the secondary (red).
Heat mediated antigen retrieval buffer/enzyme used: Tris/EDTA pH 9.0.

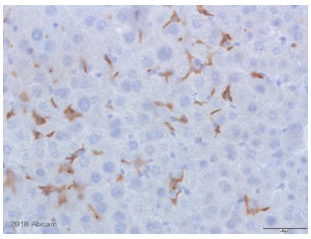
Blocking step: 5% serum for 1 hour at 22°C.



Immunohistochemistry (Frozen sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Frozen sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse spleen tissue labeling CD163 with ab182422 at 1/200 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). The result showed some cytoplasmic staining on mouse spleen. The nuclear counterstain is DAPI (blue). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 at 1/1000 dilution. Antigen retrieval: Heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).



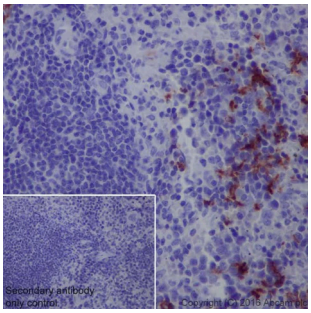
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Formaldehyde-fixed, non-permeabilized mouse liver tissue stained for CD163 with ab182422 (12 hours, 4°C at a 1/200 dilution) in immunohistochemical analysis. A Goat anti Rabbit HRP conjugate was used as the secondary at a 1/200 dilution.
Heat mediated antigen retrieval buffer/enzyme used: pH 6.0 citrate buffer.

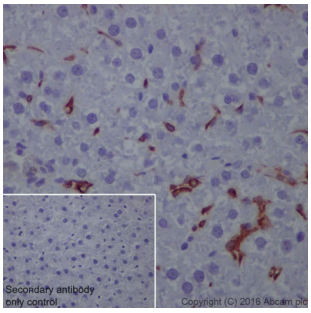
Blocking step: 3% serum for 30 mins at 20°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

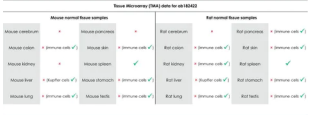
CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD163 with ab182422 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on mouse spleen is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling CD163 with ab182422 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Kupffer cells of rat liver is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

Tissue Microarrays stained for "Anti-CD163 antibody [EPR19518]" using "ab182422"in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab182422 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

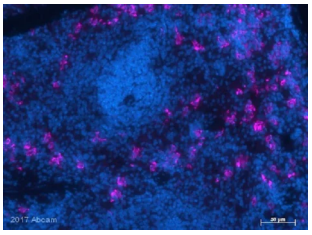


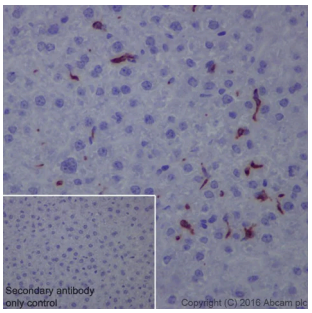
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

10% NBF, non-permeabilized mouse spleen tissue stained for CD163 with ab182422 (12 hours, 4°C at a 1/200 dilution) in immunohistochemical analysis. A Donkey anti Rabbit IgG polyclonal AlexaFluor®647 conjugate was used as the secondary at a 1/200 dilution (red).
Heat mediated antigen retrieval buffer/enzyme used: Sodium citrate pH 6.0.

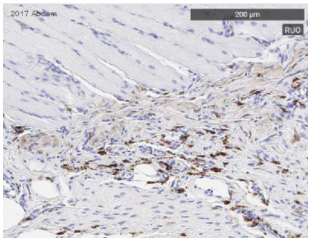
Blocking step: 5% serum for 1 hour at 21°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling CD163 with ab182422 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Kupffer cells of mouse liver is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



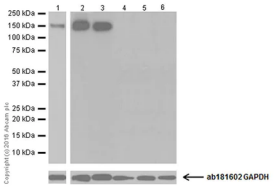
This image is courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD163 antibody

Formaldehyde-fixed, non-permeabilized rat achilles tissue stained for CD163 with ab182422 (30 mins at a 1/200 dilution) in immunohistochemical analysis. A Rabbit polyclonal HRP conjugate was used as the secondary.
Heat mediated antigen retrieval buffer/enzyme used: pH 6.0 citrate 70°C for 2hrs.

Blocking step: 1% ab64226 for 10 mins at RT.



Western blot - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Western blot staining using rabbit Anti-CD163 antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: Lane 1: 1 minute; Lane 2-5: 3 minutes.

U937 , THP-1 and J774A.1 cell lines were reported to be negative for CD163 expression. (PMID:16368951, 10648003 & 10577520).

The molecular weight observed is consistent with what has been described in the literature (PMID:9712057 & 16517975).

All lanes:
Western blot - Anti-CD163 antibody [EPR19518] (ab182422) at 1/1000 dilution

Lane 1:
Human fetal liver lysate at 20 µg

Lane 2:
Human tonsil lysate at 20 µg

Lane 3:
Human fetal spleen lysate at 20 µg

Lane 4:
U937 (Human histiocytic lymphoma cell line) whole cell lysate at 20 µg

Lane 5:
THP-1 (Human monocytic leukemia cell line) whole cell lysate at 20 µg

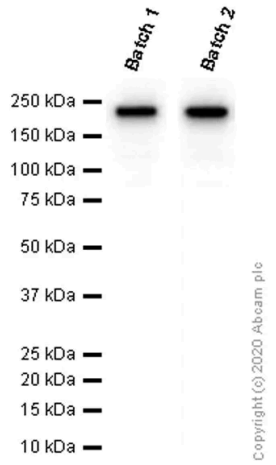
Lane 6:
J774A.1 (Mouse macrophage reticulum cell sarcoma cell line) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 125 kDa

Observed band size: 150 kDa

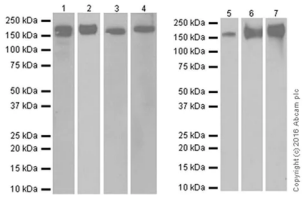


Western blot - Anti-CD163 antibody [EPR19518] (ab182422)

CD163 Western blot staining using rabbit Anti-CD163 antibody

Different batches of ab182422 were tested on Rat liver lysate at 2.0 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 150 kDa.
All lanes:
Western blot - Anti-CD163 antibody [EPR19518] (ab182422)

Predicted band size: 125 kDa



Western blot - Anti-CD163 antibody [EPR19518] (ab182422)

Blocking/Dilution buffer: 5% NFDM/TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID:9712057 & 16517975).

All lanes:
Western blot - Anti-CD163 antibody [EPR19518] (ab182422) at 1/1000 dilution

Lane 1:
Mouse liver lysate at 10 µg

Lane 2:
Mouse heart lysate at 10 µg

Lane 3:
Mouse spleen lysate at 10 µg

Lane 4:
Mouse thymus lysate at 10 µg

Lane 5:
Rat liver lysate at 10 µg

Lane 6:
Rat heart lysate at 10 µg

Lane 7:
Rat spleen lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 125 kDa

Observed band size: 150 kDa

Exposure time: 3min

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