abcam

ab318302

Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric)

Chicken recombinant monoclonal Iba1 EPR16588 antibody. Suitable for WB, IHC-P, IHC-Fr, FC (intra) and ICC/IF. Reacts with human, mouse and rat samples.

This antibody is the chimeric Chicken version of clone EPR16588, available in rabbit as ab178846 with over 750 publications. Same clone, same staining pattern, different species antibody backbone.
Learn more about chimeric antibodies

Lab Essentials | Recombinant | 20ul selling size

Key facts

Isotype	IgY
Host species	Chicken
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	EPR16588
Purification technique	Affinity purification Thiophilic Resin
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat, Human, Mouse
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Expected

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

Target data

See full target information AIF1

Function	Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Notes

This chicken monoclonal chimeric antibody has been engineered from a RabMAb parent antibody (ab178846). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive secondary antibodies are recommended.

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	Iba1 also known as Allograft Inflammatory Factor 1 (AIF-1) is a 17 kDa protein notable for its involvement in immune responses. It is expressed mainly in microglia and macrophages key components of the central nervous system's immune system. Researchers often use Iba1 in Western blots and immunohistochemistry (IHC) to study microglial activation. The protein's expression is a strong marker of microglial activation making it a focal point in neuroinflammation studies. Anti-Iba1 antibodies have gained popularity for their effectiveness in identifying microglia in brain tissue sections through Iba1 staining techniques.
Biological function summary	Iba1 modulates actin bundling facilitating changes in microglial morphology and motility. It does not form part of a multiprotein complex but is significantly involved in cytoskeletal dynamics. This protein's expression increases during brain injury indicating its role in response to neural trauma. Iba1 has calcium-binding properties which suggest that it might interact with proteins involved in calcium signaling pathways.
Pathways	Calcium signaling and actin cytoskeletal rearrangement are significant biological processes that involve Iba1. Within these pathways Iba1 interacts closely with other actin-binding proteins that affect microglial movement and morphology. Such interactions illustrate how Iba1 helps microglia navigate and respond to changes within the brain environment.
Associated diseases and disorders	Iba1 is often associated with neurodegenerative diseases like Alzheimer's disease and amyotrophic lateral sclerosis (ALS). In these conditions elevated Iba1 levels mark increased microglial activity which correlates with disease progression. Connections with proteins such as amyloid-beta in Alzheimer's disease suggest its role in mediating inflammatory responses and linking inflammation to disease pathology.

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

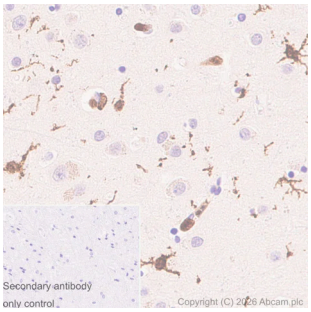
We do not recommend this combination. It is not covered by our product promise.

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.

22 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebrum using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

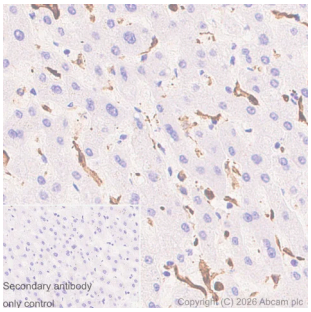
Positive staining on human cerebrum.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human liver using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

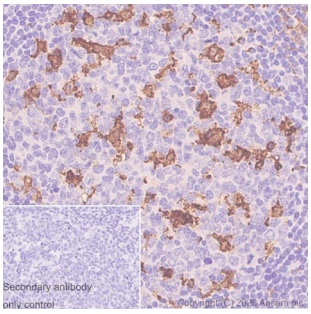
Positive staining on human liver.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human tonsil using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

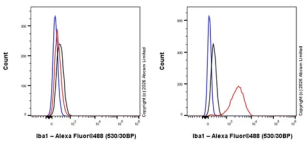
Positive staining on human tonsil.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



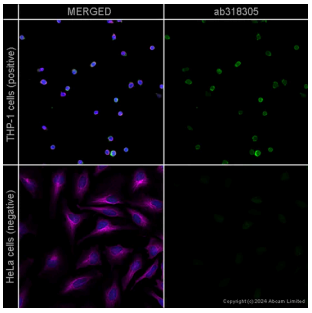
Flow Cytometry (Intracellular) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Flow Cytometry (Intracellular) staining using chicken Anti-Iba1 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized MCF7 (human breast adenocarcinoma epithelial cell, Left) / THP-1 (human monocytic leukemia monocyte, Right) cells labelling Iba1 with ab318302 at 1/5000 dilution (0.01ug)/ Red compared with a purified Chicken IgY Isotype Control Antibody /Black and cell without incubation with primary antibody and secondary antibody / Blue.

Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/5000 dilution was used as the secondary antibody.

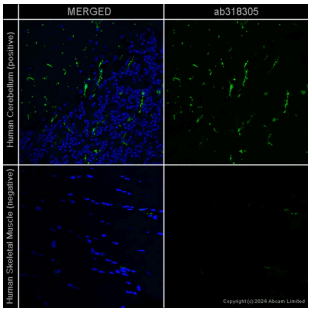
Negative control: MCF7



Immunocytochemistry/ Immunofluorescence - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunocytochemistry/ Immunofluorescence staining of THP-1 cells using chicken Anti-Iba1 antibody

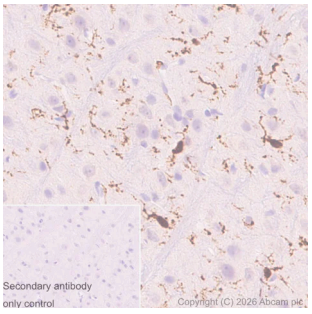
This image was produced using ab317805, the same antibody clone but in a different formulation. ab318305 staining Iba1 in THP-1 (positive) and HeLa (negative) cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab318305 at 5 µg/ml and ab202272, Alexa Fluor® 594 Rabbit monoclonal [EP1332Y] to alpha Tubulin - Microtubule Marker (shown in pseudocolour magenta). Cells were then incubated with ab150173, Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of human brain using chicken Anti-Iba1 antibody

This image was produced using ab317805, the same antibody clone but in a different formulation. Immunofluorescence staining of Iba1 in a section of formalin-fixed paraffin-embedded human brain. Performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate (pH6.0) for 20 minutes. The section was then incubated at room temperature for 1 hour with ab318305 at 1 µg/ml, and then incubated for 1 hour with ab150173, Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat cerebrum using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

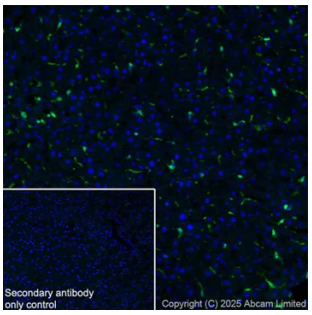
Positive staining on rat cerebrum.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Frozen sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

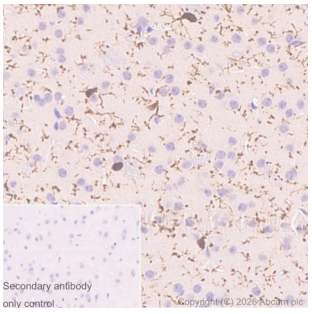
Iba1 Immunohistochemistry (Frozen sections) staining of Rat liver (perfused-fixed) using chicken Anti-Iba1 antibody

Immunohistochemical analysis of 4% PFA, 0.2% Triton X-100 permeabilized frozen Rat liver (perfused-fixed) tissue labelling Iba1 with ab318302 at 1/50 dilution followed by Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/1000 dilution (Green).

Confocal image showing positive staining on Rat liver. The nuclear counterstain was DAPI (Blue). The section was incubated with ab318302 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed ab150173 at 1/1000.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cerebrum using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

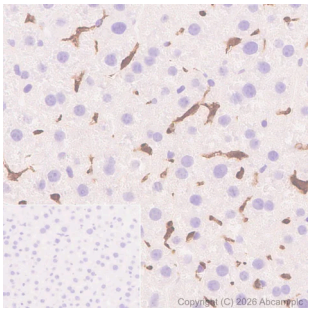
Positive staining on mouse cerebrum.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse liver using chicken Anti-Iba1 antibody

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labelling Iba1 with ab318302 at 1/5000 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse liver.
The primary antibody was incubated for 30 mins at room temperature, followed by anti-Chicken IgY antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure.

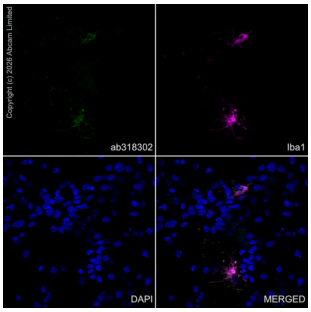
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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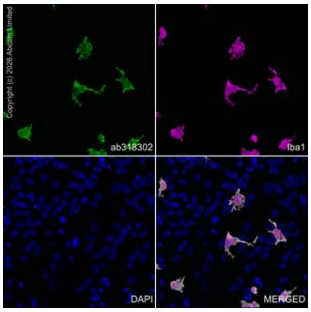
Immunocytochemistry/ Immunofluorescence - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunocytochemistry/ Immunofluorescence staining of Mouse primary neural/glia cell using chicken Anti-Iba1 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cell cells labelling Iba1 with ab318302 at 1/200 dilution (Green).

Confocal image showing microglial staining in mouse primary neural/glia cell (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.

Rabbit anti-Iba1 antibody was used to counterstain Iba1 at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

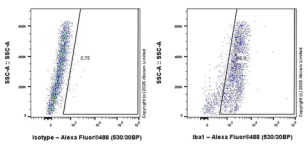
Iba1 Immunocytochemistry/ Immunofluorescence staining of Rat primary neural/glia cell using chicken Anti-Iba1 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cell cells labelling Iba1 with ab318302 at 1/200 dilution (Green).

Confocal image showing microglial staining in rat primary neural/glia cell (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.

Rabbit anti-Iba1 antibody was used to counterstain Iba1 at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

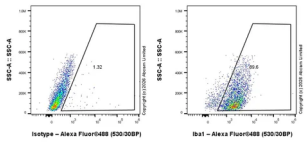


Flow Cytometry (Intracellular) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Flow Cytometry (Intracellular) staining of THP-1 (human monocytic leukemia monocyte, Right) using chicken Anti-Iba1 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neural/glia cells labelling Iba1 with ab318302 at 1/50 dilution (1ug)/ Right compared with a purified Chicken IgY Isotype Control Antibody /Left.

Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/5000 dilution was used as the secondary antibody.

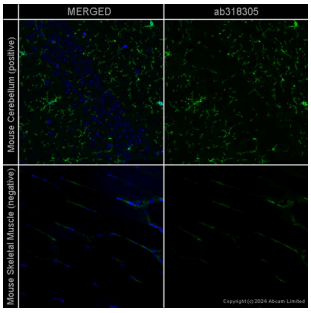


Flow Cytometry (Intracellular) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Flow Cytometry (Intracellular) staining of Rat primary neural/glia cell using chicken Anti-Iba1 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Rat primary neural/glia cells labelling Iba1 with ab318302 at 1/50 dilution (1ug)/ Right compared with a purified Chicken IgY Isotype Control Antibody /Left.

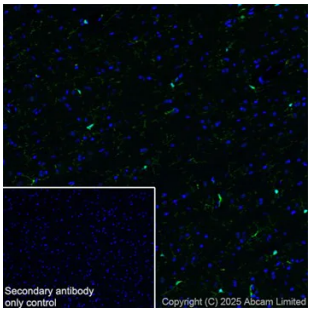
Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of mouse brain using chicken Anti-Iba1 antibody

This image was produced using ab317805, the same antibody clone but in a different formulation. Immunofluorescence staining of Iba1 in a section of formalin-fixed paraffin-embedded mouse brain. Performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate (pH6.0) for 20 minutes. The section was then incubated at room temperature for 1 hour with ab318305 at 1 µg/ml, and then incubated for 1 hour with ab150173, Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.



Immunohistochemistry (Frozen sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

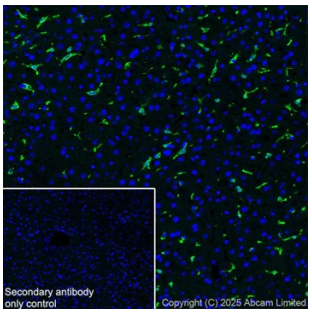
Iba1 Immunohistochemistry (Frozen sections) staining of Mouse liver (perfused-fixed) using chicken Anti-Iba1 antibody

Immunohistochemical analysis of 4% PFA, 0.2% Triton X-100 permeabilized frozen Rat cerebrum (perfused-fixed) tissue labelling Iba1 with ab318302 at 1/50 dilution followed by Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/1000 dilution (Green).

Confocal image showing positive staining on Rat cerebrum. The nuclear counterstain was DAPI (Blue). The section was incubated with ab318302 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed ab150173 at 1/1000.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)



Immunohistochemistry (Frozen sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

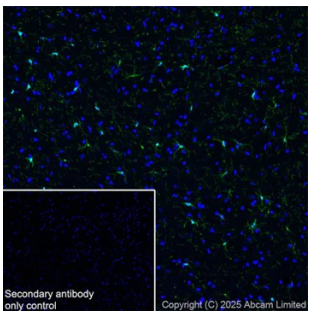
Iba1 Immunohistochemistry (Frozen sections) staining of Mouse liver (perfused-fixed) using chicken Anti-Iba1 antibody

Immunohistochemical analysis of 4% PFA, 0.2% Tritin X-100 permeabilized frozen Mouse liver tissue labelling Iba1 with ab318302 at 1/50 dilution Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/1000 dilution (Green)

Secondary antibody control: Secondary antibody is Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/1000 dilution

Confocal image showing positive staining on mouse liver. The nuclear counterstain was DAPI (Blue). The section was incubated with ab318302 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)



Immunohistochemistry (Frozen sections) - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Immunohistochemistry (Frozen sections) staining of Mouse cerebrum (perfused-fixed) using chicken Anti-Iba1 antibody

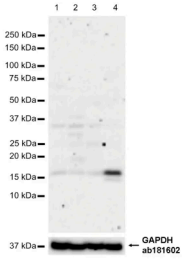
Immunohistochemical analysis of 4% PFA, 0.2% Triton X-100 permeabilized frozen Mouse cerebrum (perfused-fixed) tissue labelling Iba1 with ab318302 at 1/50 dilution followed by Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed (ab150173) at 1/1000 dilution (Green).

Confocal image showing positive staining on mouse cerebrum. The nuclear counterstain was DAPI (Blue). The section was incubated with ab318302 for 60 mins at room temperature. The section

was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is Goat Anti-Chicken IgY H&L (Alexa Fluor® 488) preadsorbed ab150173 at 1/1000.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)



Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Western blot staining using chicken Anti-Iba1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

ab181602 was used as a GAPDH loading control.
All lanes:
Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
Human testis tissue lysate at 20 µg

Lane 4:
Human spleen tissue lysate at 20 µg

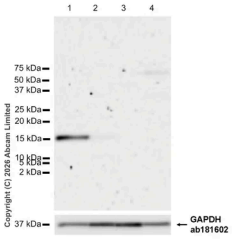
Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Developed using the ECL technique.

Observed band size: 16 kDa

Exposure time: 3min



Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Western blot staining using chicken Anti-Iba1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

ab181602 was used as a GAPDH loading control.
All lanes:
Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302) at 1/1000 dilution

Lane 1:
THP-1 (human monocytic leukemia monocyte) whole cell lysate at 20 µg

Lane 2:
U-937 (human histiocytic lymphoma monocyte) whole cell lysate at 20 µg

Lane 3:
MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

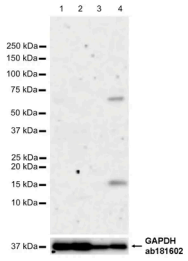
Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Developed using the ECL technique.

Observed band size: 16 kDa

Exposure time: 3min



Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Western blot staining using chicken Anti-Iba1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

ab181602 was used as a GAPDH loading control.
All lanes:
Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302) at 1/1000 dilution

Lane 1:
Rat brain tissue lysate at 20 µg

Lane 2:
Rat heart tissue lysate at 20 µg

Lane 3:
Rat kidney tissue lysate at 20 µg

Lane 4:
Rat spleen tissue lysate at 20 µg

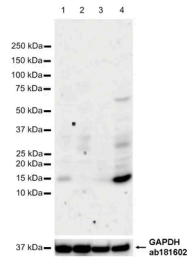
Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Developed using the ECL technique.

Observed band size: 16 kDa

Exposure time: 3min



Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302)

Iba1 Western blot staining using chicken Anti-Iba1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

ab181602 was used as a GAPDH loading control.
All lanes:
Western blot - Anti-Iba1 antibody [EPR16588] - Microglia marker – Chicken IgY (Chimeric) (ab318302) at 1/1000 dilution

Lane 1:
Mouse brain tissue lysate at 20 µg

Lane 2:
Mouse heart tissue lysate at 20 µg

Lane 3:
Mouse kidney tissue lysate at 20 µg

Lane 4:
Mouse spleen tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Developed using the ECL technique.

Observed band size: 16 kDa

Exposure time: 3min

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.