abcam

ab198395

Anti-CD34 antibody [EP373Y] - BSA and Azide free

Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395) is a rabbit recombinant monoclonal antibody provided in a PBS only buffer for easy conjugation. Suitable for **Western Blot, Flow Cytometry (Intra), IP, IHC-P, IHC-Fr, ICC/IF** in **Human, Mouse, Rat**.

- BSA, sodium azide, and glycerol-free for easy conjugation
- Biophysical QC for unrivalled batch-batch consistency
- Over 20 publications

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EP373Y
Purification technique	Affinity purification Protein A
Dissociation constant	1.15 x 10^{-10} M
Concentration	1.06 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	-
Notes	-

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Rat, Mouse
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.

Notes	-

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Predicted

Species	Sheep, Dog, African bush elephant
Dilution info	-
Notes	-

Target data

See full target information CD34

Function	Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

What is this antibody validated in?
Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of CD34?
Anti-CD34 [EP373Y] - BSA and Azide free (ab198395) specifically detects a band for CD34 (UniProt: P28906) at a molecular weight of 40kDa.

Trusted by the scientific community
Anti-CD34 [EP373Y] - BSA and Azide free (ab198395) was first used in a scientific publication in 2016 and has been cited over 20 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EP373Y] also available for your convenience: ab81289, Alexa

Fluor® 488 - ab195013, HRP - ab195017, Carrier free - ab198395, PE - ab223930, APC - ab310881, Alexa Fluor® 594 - ab311670, Alexa Fluor® 568 - ab312945, Alexa Fluor® 555 - ab313155, Alexa Fluor® 750 - ab321739

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

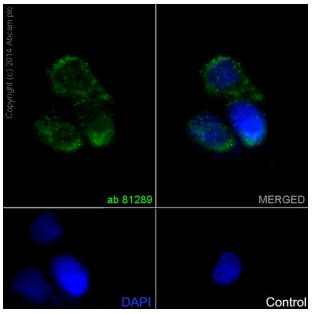
We do not recommend this combination. It is not covered by our product promise.

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.

26 product images

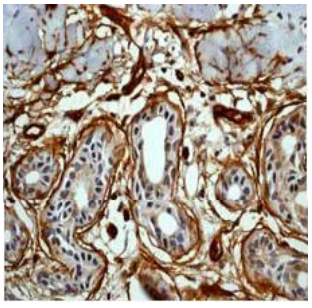


Immunocytochemistry/ Immunofluorescence - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD34 antibody

Immunocytochemistry/Immunofluorescence analysis of HUVEC (Human umbilical vein endothelial cell line) cells labelling CD34 with purified ab81289 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (ab150077) (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counter stain.
Control: Secondary antibody only, ab150120, an Alexa Fluor® 488-conjugated goat anti-mouse IgG (1/500).

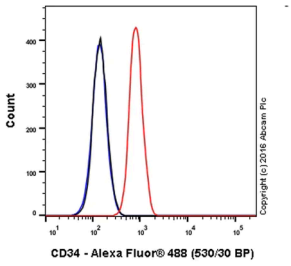
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human angiosarcoma labeling CD34 with unpurified ab81289 at 1/100-1/250.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



Flow Cytometry (Intracellular) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

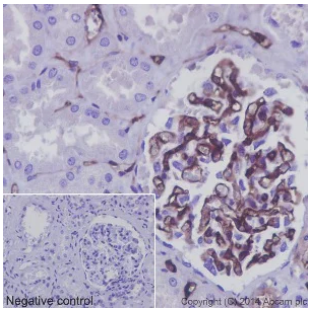
CD34 Flow Cytometry (Intracellular) staining using rabbit Anti-CD34 antibody

Clone EP373Y (ab198395) has been successfully conjugated by Abcam. This image was generated using Anti-CD34 antibody [EP373Y] (Alexa Fluor® 488). Please refer to ab195013 for protocol details.
Overlay histogram showing HUVEC cells stained with ab195013 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab195013, 1/500 dilution) for 30 min at 22°C.

Isotype control antibody (black line) was Rabbit IgG (monoclonal) Alexa Fluor® 488 (ab199091) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

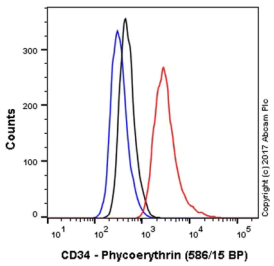
This antibody gave a positive signal in HUVEC cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Triton X-100 for 15 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling CD34 with purified ab81289 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (ab97051) was used as the secondary antibody at 1/500. Negative control using PBS instead of primary antibody. Counter stained with Hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



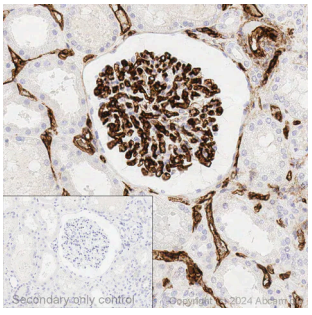
Flow Cytometry (Intracellular) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Flow Cytometry (Intracellular) staining using rabbit Anti-CD34 antibody

Clone EP373Y (ab198395) has been successfully conjugated by Abcam. This image was generated using Anti-CD34 antibody [EP373Y] (PE). Please refer to ab223930 for protocol details.
Overlay histogram showing HUVEC cells stained with ab223930 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab223930, 1/500 dilution) for 30 min at 22°C.

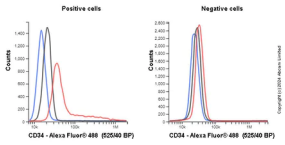
Isotype control antibody (black line) was Rabbit IgG (monoclonal) Phycoerythrin (ab209478) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 50 mW Yellow/Green laser (561nm) and 586/15 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

Immunohistochemical analysis of formalin fixed paraffin embedded human kidney labelling CD34 with ab198395 at a concentration of 0.5µg/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 32 min with ULTRA cell conditioning solution (CC1 pH 8.5). ab198395 anti CD34 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 (Intracellular) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

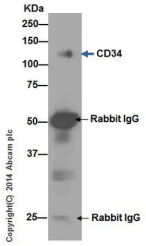
CD34 Flow Cytometry (Intracellular) staining using rabbit Anti-CD34 antibody

This data was developed using the same antibody clone in a different buffer formulation (ab81289).
Flow cytometry overlay histogram showing left HUVEC positive cells and right negative HL60 stained with ab81289 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 mins. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab81289) (1x 10^6 in 100µl at 0.2µg/ml (1/11550 dilution)) for 30 mins at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 dilution for 30 mins at 22°C

Isotype control antibody (black line) was Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



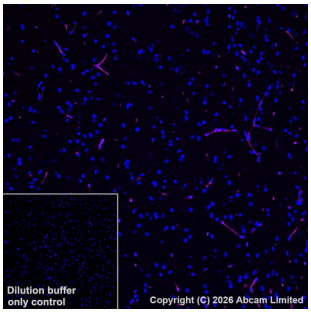
Immunoprecipitation - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 was immunoprecipitated from TF-1 (Human bone marrow erythroleukemia cells) cells using purified ab81289 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab81289. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as secondary antibody at 1/1000 dilution. Blocking and dilution buffer and concentration: 5% NFDM/TBST
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).

All lanes:
Immunoprecipitation - Anti-CD34 antibody [EP373Y] (ab81289)

Predicted band size: 40 kDa

Observed band size: 120 kDa



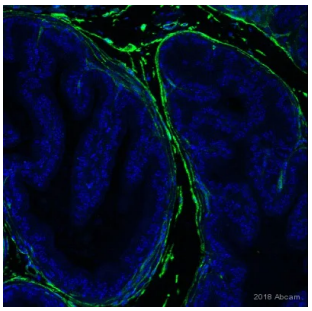
Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Mouse Brain using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Mouse Brain tissue labeling CD34 with ab81289 at 1/50 (9.58 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on mouse brain tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

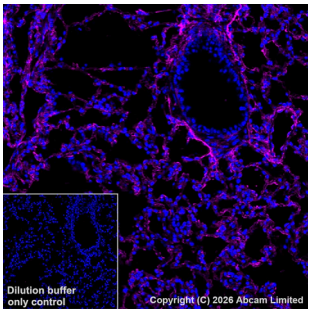


This image is courtesy of an anonymous customer review.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

Paraformaldehyde-fixed, paraffin-embedded mouse prostate tissue stained for CD34 using ab81289 at 1/150 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).

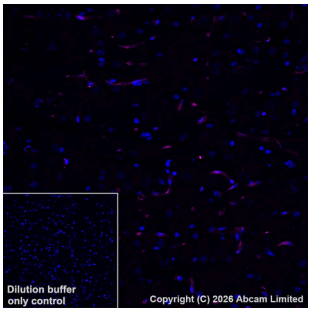


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Rat Lung using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Rat Lung tissue labeling CD34 with ab81289 at 1/200 (2.4 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on rat lung tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

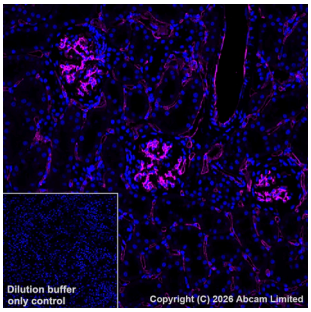


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Rat Brain using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Rat Brain tissue labeling CD34 with ab81289 at 1/200 (2.4 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on rat brain tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

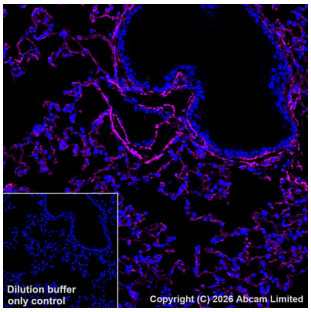


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Rat Kidney using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Rat Kidney tissue labeling CD34 with ab81289 at 1/200 (2.4 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on rat kidney tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

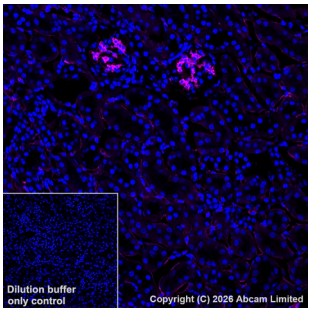


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Mouse Lung using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Mouse Lung tissue labeling CD34 with ab81289 at 1/50 (9.58 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on mouse lung tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

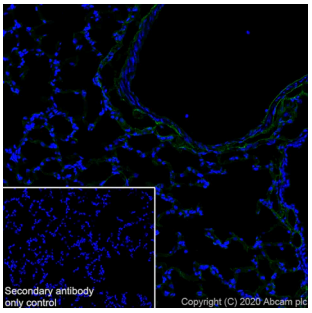


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining of Mouse Kidney using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed 0.2% Triton X-100 permeabilized frozen Mouse Kidney tissue labeling CD34 with ab81289 at 1/50 (9.58 µg/ml) dilution followed by ab150079 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed at 1/1000 (4 µg/mL). Confocal image showing positive staining on mouse kidney tissue. The nuclear counterstain was DAPI (Blue). The section was incubated with ab81289 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).

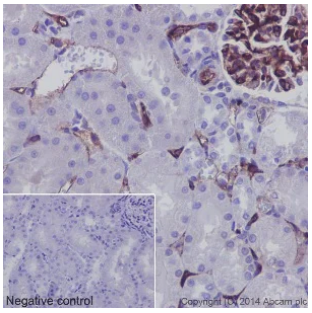


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat lung tissue labeling CD34 with ab81289 at 1/50 (11.04 µg/mL) dilution followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on rat lung. is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

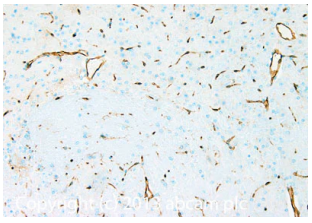
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labelling CD34 with purified ab81289 at 1/2500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (ab97051) was used as the secondary antibody at 1/500. Negative control using PBS instead of primary antibody. Counter stained with Hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).

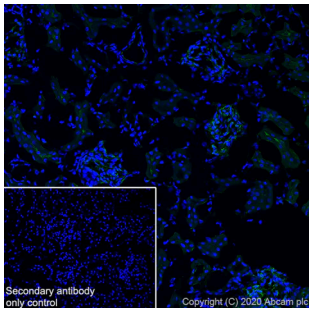


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

IHC image of CD34 staining in Mouse normal brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with unpurified ab81289, 1/250 dilution, for 15 mins at room temperature. A Goat anti-Rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).

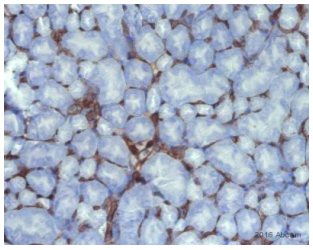


Immunohistochemistry (Frozen sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Frozen sections) staining using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat kidney tissue labeling CD34 with ab81289 at 1/50 (11.04 µg/mL) dilution followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on rat kidney. is observed. The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

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

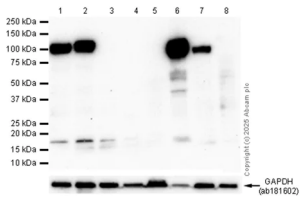


This image is courtesy of a customer review submitted by Rudolf Jung.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD34 antibody

Paraformaldehyde-fixed, paraffin-embedded mouse kidney tissue stained for CD34 using ab81289 at 1/200 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



Western blot - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Western blot staining using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation.

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

Negative control: Daudi, HL-60.

Low expression: HUVEC, Neuro-2a.

All lanes:
Western blot - Anti-CD34 antibody [EP373Y] (ab81289) at 1/1000 dilution

Lane 1:
KG-1a (human bone marrow myeloblast) whole cell lysate at 20 µg

Lane 2:
TF-1 (human erythroleukemia erythroblast) whole cell lysate at 20 µg

Lane 3:
Daudi (human Burkitts lymphoma lymphoblast) whole cell lysate at 20 µg

Lane 4:
HL-60 (Human acute promyelocytic leukemia promyeloblast) whole cell lysate at 20 µg

Lane 5:

HUVEC (Human umbilical vein endothelial cell) whole cell lysate at 20 µg

Lane 6:
bEnd.3 (mouse brain endothelioma) whole cell lysate at 20 µg

Lane 7:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

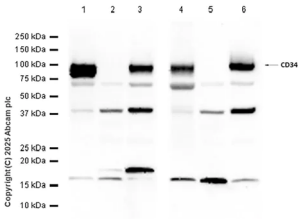
Lane 8:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Secondary

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

Observed band size: 80-120 kDa

Exposure time: 60s



Western blot - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

CD34 Western blot staining using rabbit Anti-CD34 antibody

This data was developed using ab81289, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST.

This product failed to detect any signal in the kidney lysate.

All lanes:
Western blot - Anti-CD34 antibody [EP373Y] (ab81289) at 1/1000 dilution

Lane 1:
Mouse lung tissue lysate at 20 µg

Lane 2:
Mouse kidney tissue lysate at 20 µg

Lane 3:
Mouse heart tissue lysate at 20 µg

Lane 4:
Rat lung tissue lysate at 20 µg

Lane 5:
Rat kidney tissue lysate at 20 µg

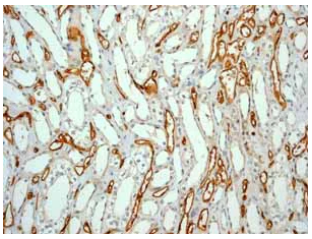
Lane 6:
Rat heart tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

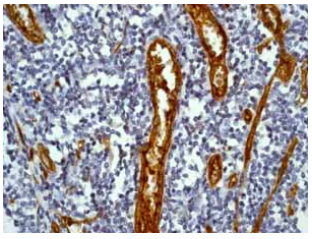
Observed band size: 80-120 kDa

Exposure time: 40s



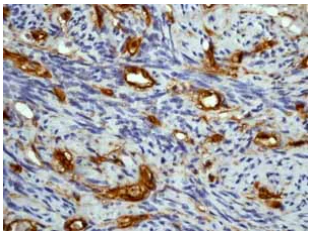
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Normal kidney vessels tissue labeling CD34 with unpurified ab81289 at 1/100-1/250.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



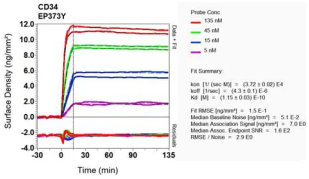
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

This IHC data was generated using the same anti-CD34 antibody clone, EP373Y, in a different buffer formulation (cat# ab81289).
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Normal tonsil vessels tissue labeling CD34 with unpurified ab81289 at 1/100-1/250.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Normal uterus vessels tissue labeling CD34 with unpurified ab81289 at 1/100-1/250.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81289).



OI-RD Scanning - Anti-CD34 antibody [EP373Y] - BSA and Azide free (ab198395)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

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