abcam

ab324151

Alexa Fluor® 594 Anti-CD34 antibody [EPR27431-71]

Recombinant RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 594
Excitation/Emission	Ex: 590nm, Em: 617nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27431-71
Purification technique	Affinity purification Protein A
Specificity	IHC-P showed non-specific staining on mouse cardiac muscle and mouse brain.
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/50
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

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

ICC/IF

Expected

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

Not recommended

Species	Mouse

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 (By similarity).

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
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

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.

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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

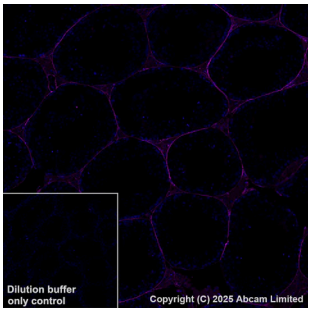
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 594 Anti-CD34 antibody [EPR27431-71] (ab324151)

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

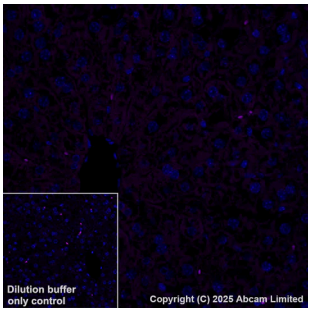
Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling CD34 with ab324151 at 1/50 (10.0 ug/ml) dilution.

Positive staining on basement membrane of mouse testis.
The primary antibody was incubated for 60 mins at room temperature (shown in magenta). Nuclear DNA was labeled with DAPI (shown in blue). 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).

Counterstained with DAPI.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 40 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 594 Anti-CD34 antibody [EPR27431-71] (ab324151)

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

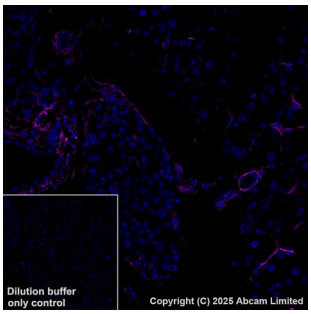
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling CD34 with ab324151 at 1/50 (10.0 ug/ml) dilution.

Low expression: nearly no staining on mouse liver.
The primary antibody was incubated for 60 mins at room temperature (shown in magenta). Nuclear DNA was labeled with DAPI (shown in blue). The section was then mounted using Fluoromount®.
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Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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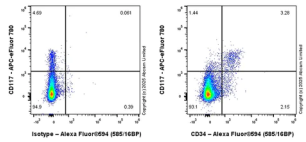
CD34 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse pancreas using rabbit Anti-CD34 antibody

Immunohistochemical analysis of paraffin-embedded Mouse pancreas tissue labeling CD34 with ab324151 at 1/50 (10.0 ug/ml) dilution.

Positive staining on endothelial cells of mouse pancreas.
The primary antibody was incubated for 60 mins at room temperature (shown in magenta). Nuclear DNA was labeled with DAPI (shown in blue). 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).

Counterstained with DAPI.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 40 mins

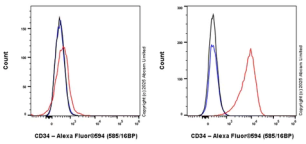


Flow Cytometry - Alexa Fluor® 594 Anti-CD34 antibody [EPR27431-71] (ab324151)

CD34 Flow Cytometry staining of Mouse bone marrow using rabbit Anti-CD34 antibody

Flow cytometric analysis of Mouse bone marrow cells labelling CD34 with ab324151 at 1/50 dilution (1ug) / Right compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 594) (ab208568) / Left isotype control.

Gated on viable cells.
Cells are co-stained with CD117 conjugated to APC-eFluor 780. (PMID: 23295606)



Flow Cytometry - Alexa Fluor® 594 Anti-CD34 antibody [EPR27431-71] (ab324151)

CD34 Flow Cytometry staining using rabbit Anti-CD34 antibody

Flow cytometric analysis of Neuro-2a (mouse neuroblastoma neuroblast, Left) / NIH/3T3 (mouse embryonic fibroblast, Right) cells labelling CD34 with ab324151 at 1/50 dilution (1ug) (Red) compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 594) (ab208568) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Negative control: Neuro-2a.
Gated on viable cells.

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