abcam

ab8536

Anti-CD34 antibody [QBEND/10]

Anti-CD34 antibody [QBEND-10] (ab8536) is a mouse monoclonal antibody detecting CD34 in **Flow Cytometry, IHC-P**. Suitable for **Human**.

- Over 60 publications
- Trusted since 2001

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Clone number	QBEND/10
Purification technique	Affinity purification Protein A
Specificity	This antibody recognizes the CD34 antigen, some cross reactions with vascular associated adventitia and some basement membranes. Ultrastructure studies, using an indirect immuno-gold technique on ultra thin sections of human umbilical artery, have revealed that this antigen is associated to a degree with the basoluminal surfaces of endothelium and shows a slight reaction with an intracytoplasmic vesicular compartment. Predominant staining is on the endothelial cell membrane. QBEND-10 immunoprecipitates a glycoprotein with a relative MW 110kD expressed on haematopoietic cells and on the established myeloid leukaemic cell line KG1A.
Epitope	This antibody's target epitope is distinct from those of other anti-CD34 reactive mabs as demonstrated by its lack of sensitivity to neuraminidase treatment, and fluorescence staining profiles during flow cytometry analysis of target cell populations.
Light chain type	unknown
Concentration	1 mg/mL The concentration of this product may be batch-dependent

Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/50
Notes	Mmethanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Not recommended

Species	Rat
Dilution info	-
Notes	Mmethanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Dog
Dilution info	-
Notes	Mmethanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Cow
Dilution info	-
Notes	Mmethanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Sheep
Dilution info	-
Notes	Mmethanol fixed cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Not recommended

Species	Human, Rat, Dog, Cow, Sheep
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	Do not perform antigen retrieval.

Not recommended

Species	Rat
Dilution info	-
Notes	Do not perform antigen retrieval.

Species	Dog
Dilution info	-
Notes	Do not perform antigen retrieval.

Species	Cow
Dilution info	-
Notes	Do not perform antigen retrieval.

Species	Sheep
Dilution info	-
Notes	Do not perform antigen retrieval.

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 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

What is this antibody validated in?
Anti-CD34 antibody [QBEND-10] (ab8536) is a mouse monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P) in Human samples.

Trusted by the scientific community
Anti-CD34 [QBEND-10] (ab8536) was first used in a scientific publication in 2001 and has been cited over 60 times in peer-reviewed journals.

Reviewed by scientists
Anti-CD34 [QBEND-10] (ab8536) has over 5 independent reviews from customers.

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.

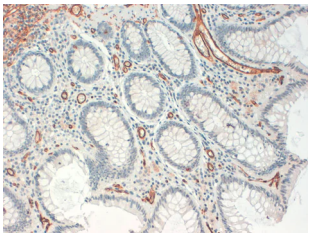
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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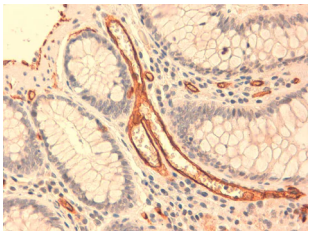
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

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

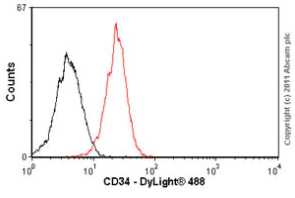
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labelling CD34 with ab8536 at 1µg/ml (1:1000). Blood vessels show positive staining.
Detection system polymeric HRP. HIER with Pressure cooker pH6.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

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

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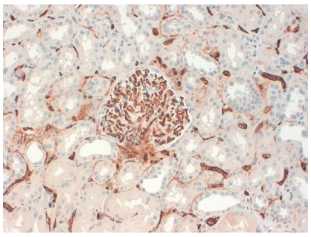
Flow Cytometry - Anti-CD34 antibody [QBEND/10] (ab8536)

CD34 Flow Cytometry staining using mouse Anti-CD34 antibody

Overlay histogram showing Jurkat cells stained with ab8536 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab8536, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse

IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a significantly decreased signal in Jurkat cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

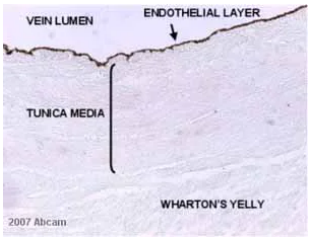
Please note that Abcam do not have data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue sections labeling CD34 with ab8536 at 1ug/ml.
Detection system polymeric HRP.

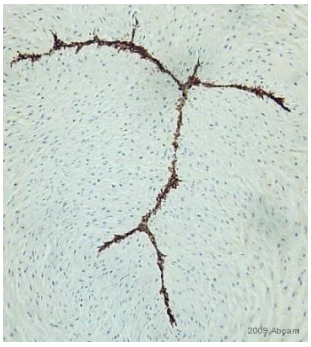


This image is courtesy of a customer review submitted by Dr Jose Javier Martin De Llano

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

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

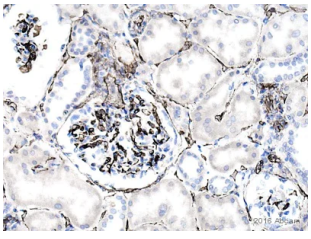
ab8536 at 1/500 staining human umbilical cord tissue sections by IHC-P. The tissue was paraformaldehyde fixed and blocked with horse serum before incubation with the antibody for 16 hours. A biotinylated goat anti-mouse IgG was used as the secondary.



This image is courtesy of a customer review submitted by Manoj Kumar Valluru.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human umbilical cord labeling CD34 with ab8536 at 1/1000 dilution. Tissue was fixed in formaldehyde and permeabilized with PBS. Heat mediated antigen retrieval was performed using a citrate pH 6 buffer. Tissue was blocked with 5% serum for 1 hour at room temperature. A biotinylated polyclonal goat anti-mouse secondary antibody was used at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [QBEND/10] (ab8536)

ab8536 staining CD34 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 2% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/2000 in blocking buffer) for 16 hours at

This image is courtesy of a customer review by Carl Hobbs.	21°C. A Biotin-conjugated goat anti-mouse IgG polyclonal (1/300) was used as the secondary antibody.

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