

## Product datasheet

# Anti-CD34 antibody [9B10D4/4H5E7] ab54208

★★★★★ 1 Abreviews 6 References 4 Images

### Overview

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<b>Product name</b>	Anti-CD34 antibody [9B10D4/4H5E7]
<b>Description</b>	Mouse monoclonal [9B10D4/4H5E7] to CD34
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, ICC/IF, Flow Cyt, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human CD34.
<b>Positive control</b>	IF: Peripheral blood cells. WB: CD34 recombinant protein
<b>General notes</b>	This product was changed from ascites to supernatant. Lot no's high than GR182422-21 are from Tissue Culture Supernatant

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	9B10D4/4H5E7
<b>Isotype</b>	IgG2b

## Applications

Our [Abpromise guarantee](#) covers the use of **ab54208** in the following tested applications.

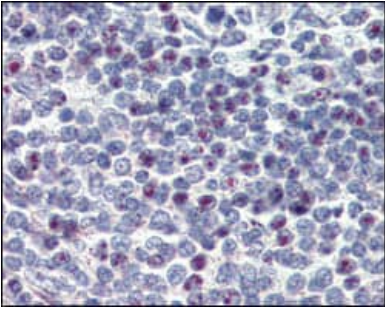
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/200 - 1/1000. Detects a band of approximately 35 kDa (predicted molecular weight: 41 kDa).
ELISA		1/10000.
ICC/IF	★★★★★	1/100 - 1/500.
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.

## Target

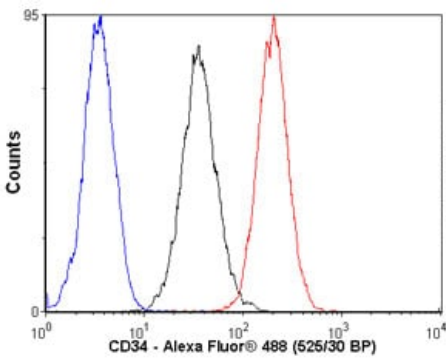
<b>Function</b>	Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins.
<b>Tissue specificity</b>	Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues.
<b>Sequence similarities</b>	Belongs to the CD34 family.
<b>Developmental stage</b>	On early hematopoietic progenitor cells.
<b>Post-translational modifications</b>	Highly glycosylated. Phosphorylated on serine residues by PKC.
<b>Cellular localization</b>	Membrane.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [9B10D4/4H5E7] (ab54208)

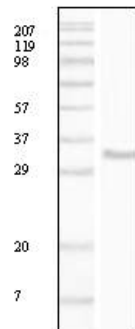
ab54208 at 1/1000 dilution staining CD34 in human spleen tissue sections by Immunohistochemistry (Formalin/ PFA-fixed paraffin-embedded tissue sections). The DAB staining procedure was used for tissue section staining.



Flow Cytometry - Anti-CD34 antibody [9B10D4/4H5E7] (ab54208)

Overlay histogram showing Jurkat cells stained with ab54208 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab54208, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG ( 1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

kDa 1 2



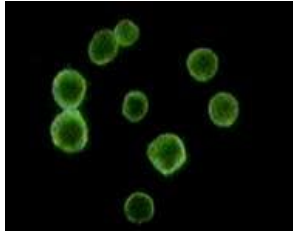
Western blot - Anti-CD34 antibody [9B10D4/4H5E7] (ab54208)

Anti-CD34 antibody [9B10D4/4H5E7] (ab54208) at 1/200 dilution + Truncated CD34 recombinant protein

**Predicted band size:** 41 kDa

**Observed band size:** 35 kDa

[why is the actual band size different from the predicted?](#)



Immunofluorescence analysis of peripheral blood cells using ab54208 (1/100) with FITC-IgG.

Immunocytochemistry/ Immunofluorescence - Anti-CD34 antibody [9B10D4/4H5E7] (ab54208)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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