abcam

Product datasheet

Anti-CD34 antibody [4H11(APG)] ab762

6 References 3 Images

Overview

Product name	Anti-CD34 antibody [4H11(APG)]
Description	Mouse monoclonal [4H11(APG)] to CD34
Host species	Mouse
Specificity	This antibody reacts with Class III epitope on CD34 antigen.
Tested applications	**Suitable for:** Flow Cyt, IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human CD34. Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia
Positive control	IHC-P: Human normal placenta. WB: TF-1 Flow Cytometry: human peripheral whole blood.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purified from TCS. Purity >95% by SDS-PAGE.
Clonality	Monoclonal
Clone number	4H11(APG)
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab762 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
Flow Cyt		Use a concentration of 2 µg/ml.
IHC-P		Use a concentration of 10 µg/ml.
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 110 kDa.

Target

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.

Tissue specificity Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues.

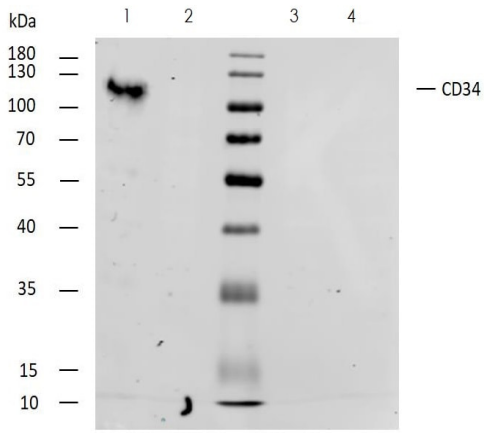
Sequence similarities Belongs to the CD34 family.

Developmental stage On early hematopoietic progenitor cells.

Post-translational modifications Highly glycosylated.
Phosphorylated on serine residues by PKC.

Cellular localization Membrane.

Images



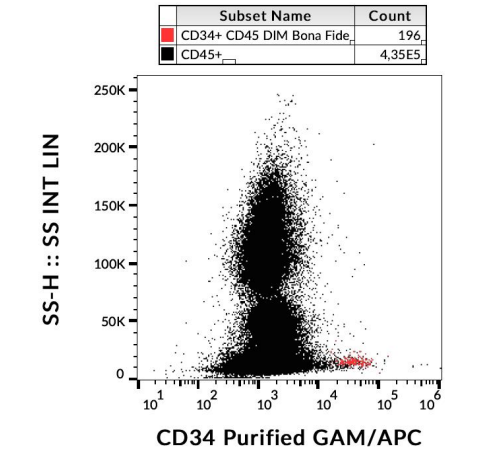
Western blot - Anti-CD34 antibody [4H11(APG)] (ab762)

All lanes : Anti-CD34 antibody [4H11(APG)] (ab762) at 2 µg/ml

Lane 1 : TF-1 cell line non-reducing
Lane 2 : HEK293T/17 cell line (CD34 non-expressing cell line; negative control) non reducing
Lane 3 : TF-1 cell line reducing
Lane 4 : HEK293T/17 cell line (CD34 non-expressing cell line; negative control) Reducing

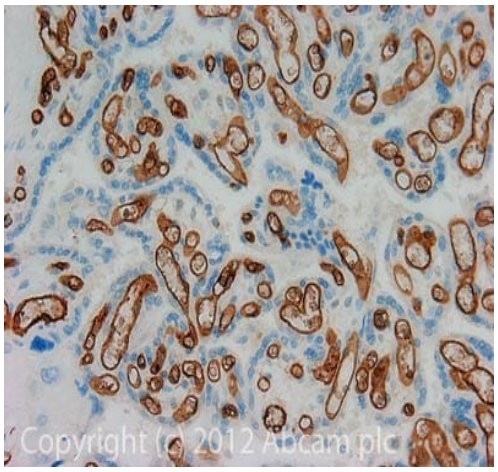
Secondary
All lanes : IRDye800-conjugated anti-mouse IgG1

A specific band was detected for CD34 protein at approximately 110 kDa.



Flow Cytometry - Anti-CD34 antibody [4H11(APG)] (ab762)

Flow cytometric surface staining pattern showing CD34 positive stem cells in red stained with 2µg/ml ab762 in human peripheral whole blood.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD34 antibody [4H11(APG)] (ab762)

IHC image of CD34 staining in Human normal placenta formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. 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 ab762, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer 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.

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