abcam

ab762

Anti-CD34 antibody [4H11[APG]]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD34 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P28906
Clone number	4H11[APG]
Purification technique	Affinity purification Protein A
Specificity	This antibody reacts with Class III epitope on CD34 antigen.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS. Purified by precipitation and chromatography. Purity >95% by SDS-PAGE.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	2 µg/mL

Notes	-

WB

Tested

Species	Human
Dilution info	2 µg/mL
Notes	-

IHC-P

Tested

Species	Human
Dilution info	10 µg/mL
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 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

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

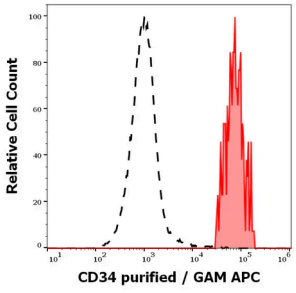
We do not recommend this combination. It is not covered by our product promise.

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.

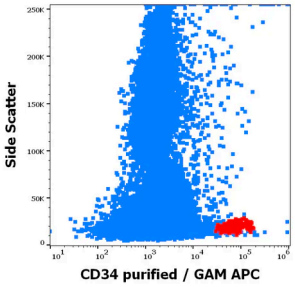
5 product images



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

CD34 Flow Cytometry staining of Human peripheral whole blood using mouse Anti-CD34 antibody

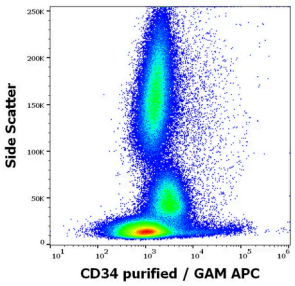
Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) purified antibody (concentration in sample 1.67 µg/ml, GAM APC).



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

CD34 Flow Cytometry staining of Human peripheral whole blood using mouse Anti-CD34 antibody

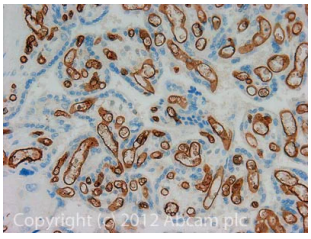
Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-human CD34 (4H11[APG]) purified antibody (concentration in sample 1.67 µg/ml, GAM APC).



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

CD34 Flow Cytometry staining of Human peripheral whole blood using mouse Anti-CD34 antibody

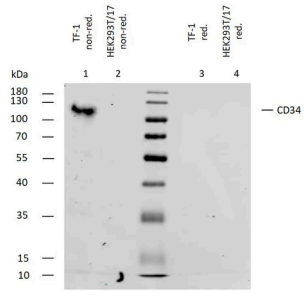
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) purified antibody (concentration in sample 1.67 µg/ml, GAM APC).



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

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

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.



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

CD34 Western blot staining using mouse Anti-CD34 antibody

Under non-reducing and reducing conditions.
Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-CD34 monoclonal antibody 4H11[APG] (ab762) followed by IRDye800-conjugated anti-mouse IgG1 secondary antibody. A specific band was detected for CD34 protein at approximately 110 kDa.

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

Lanes 1 and 3:
TF-1 (human erythroleukemia cell line) cell lysates

Lanes 2 and 4:
HEK293T/17 (CD34 non-expressing cell line) cell lysate

Secondary

All lanes:
IRDye800-conjugated anti-mouse IgG1

Observed band size: 110 kDa

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