abcam

ab21893

Biotin Anti-CD34 antibody [4H11[APG]]

Anti-CD34 antibody [4H11[APG] conjugated to Biotin - suitable for flow cytometry, and reacts with human samples. Clone [4H11[APG]] is a mouse monoclonal antibody cited in 70 publications.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	Biotin
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 G
Specificity	The antibody 4H11[APG] completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line.
Epitope	Class III epitope on CD34 antigen.
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	1-2 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
Storage information	Avoid freeze / thaw cycle

Notes

The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

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.

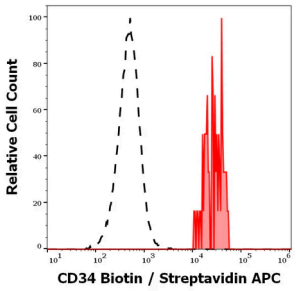
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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:
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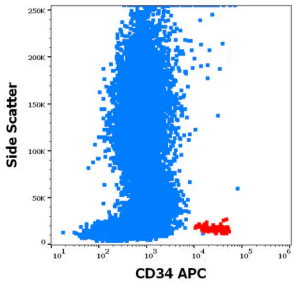
3 product images



Flow Cytometry - Biotin Anti-CD34 antibody [4H11[APG]] (ab21893)

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

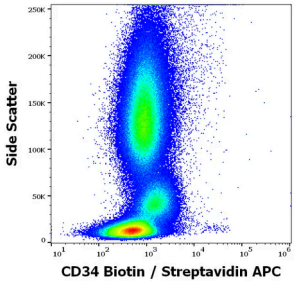
Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD34 (4H11[APG]) Biotin antibody (concentration in sample 1.67 µg/ml, streptavidin APC).



Flow Cytometry - Biotin Anti-CD34 antibody [4H11[APG]] (ab21893)

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]) Biotin antibody (concentration in sample 1.67 µg/ml, streptavidin APC).



Flow Cytometry - Biotin Anti-CD34 antibody [4H11[APG]] (ab21893)

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]) Biotin antibody (concentration in sample 1.67 µg/ml, streptavidin APC).

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