

CD34 Monoclonal Antibody (4H11), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	4H11
Conjugate	APC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2016672

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	31 Publications

Product Specific Information

Description: The 4H11 monoclonal antibody reacts with human CD34, also known as mucosialin. CD34 belongs to a protein family which also includes endoglycan and podocalyxin. Members of this family are single pass transmembrane proteins with a heavily glycosylated extracellular and N-terminal mucin domain. CD34 was first identified as an antigen expressed on hematopoietic progenitors, and has since been extensively used as a marker to isolate cells capable of hematopoietic cell engraftment. In spite of this, the function of CD34 remains unresolved. In addition to expression on hematopoietic progenitors, CD34 is expressed on some populations of mesenchymal stem cells, tumor cell lines, and by vascular endothelia in the adult. Epitopes of CD34 have been assigned to three classes (class I, II or III) based on their differential sensitivity to enzymatic cleavage by neuraminidase, chymopapain, or O-glycoprotease. According to this analysis, the 4H11 antibody belongs to class III, indicating that it reacts with a protein epitope.

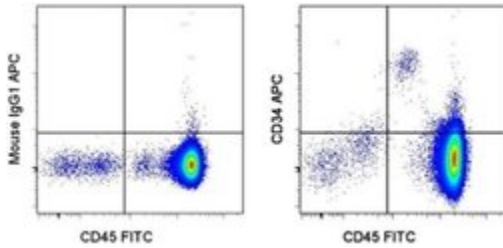
Applications Reported: This 4H11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 4H11 (APG) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD34 Monoclonal Antibody (4H11), APC, eBioscience™



CD34 Antibody (17-0349-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD45 FITC (Product # 11-0459-42) and Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or Anti-Human CD34 APC (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

31 References

Flow Cytometry (31)

NPJ Regenerative medicine

CRISPR/Cas9-based genetic correction for recessive dystrophic epidermolysis bullosa.

"17-0349 was used in Flow cytometry/Cell sorting to showcase the therapeutic potential of gene-editing coupled with stem cell technology for the treatment of recessive dystrophic epidermolysis bullosa."

Authors: Webber BR, Osborn MJ, McElroy AN, Twaroski K, Lonetree CL, DeFeo AP, Xia L, Eide C, Lees CJ, McElmurry RT, Riddle MJ, Kim CJ, Patel DD, Blazar BR, Tolar J

Species
Human

Dilution
Not Cited

Year
2020

Molecular medicine reports

TGF induces periodontal ligament stem cell senescence through increase of ROS production.

"Published figure using CD34 monoclonal antibody (Product # 17-0349-42) in Flow Cytometry"

Authors: Fan C, Ji Q, Zhang C, Xu S, Sun H, Li Z

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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