

CD34 Monoclonal Antibody (4H11), PE, eBioscience

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience
Class	Monoclonal
Type	Antibody
Clone	4H11
Conjugate	PE
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_1548680

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	22 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.

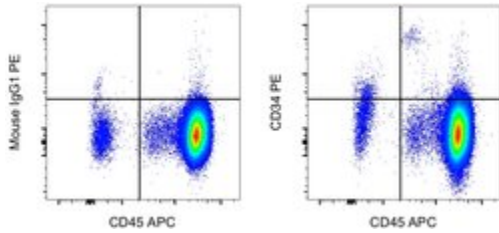
Applications Reported: This 4H11 antibody has been reported for use in flow cytometric analysis.

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 (0.5 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: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD34 Antibody (12-0349-42) in Flow

Normal human peripheral blood cells were stained with CD45 Monoclonal Antibody, APC (Product # 17-0459-42) and Mouse IgG1 kappa Isotype Control, PE (Product # 12-4714-82) (left) or CD34 Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.

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22 References

Flow Cytometry (22)

Nature communications

Human NK cell development requires CD56-mediated motility and formation of the developmental synapse.

"12-0349 was used in Flow cytometry/Cell sorting to define the developmental synapse leading to human NK cell functional maturation."

Authors: Mace EM,Gunesch JT,Dixon A,Orange JS

Species
Human

Dilution
1:100

Year
2016

Nature communications

Functionally distinct disease-associated fibroblast subsets in rheumatoid arthritis.

"12-0349 was used in Flow cytometry/Cell sorting to identify seven fibroblast subsets with distinct surface protein phenotypes, and characterise them into three subsets by integrating transcriptomic data."

Authors: Mizoguchi F,Slowikowski K,Wei K,Marshall JL,Rao DA,Chang SK,Nguyen HN,Noss EH,Turner JD,Earp BE,Blazar PE,Wright J,Simmons BP,Donlin LT,Kallioulas GD,Goodman SM,Bykerk VP,Ivashkiv LB,Lederer JA,Hacohen N,Nigrovic PA,Filer A,Buckley CD,Raychaudhuri S,Brenner MB

Species
Human

Dilution
Not Cited

Year
2018

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More applications with references on thermofisher.com

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