

APC anti-mouse CD34 Antibody

Catalog# / Size	128611 / 25 µg 128612 / 100 µg
Clone	HM34
Regulatory Status	RUO
Other Names	Mucosialin
Isotype	Armenian Hamster IgG
Description	CD34 is a highly glycosylated hematopoietic progenitor antigen. Two isoforms of CD34 have been reported. CD34 is expressed on hematopoietic progenitors, as well as endothelial cells, brain and testis. CD34 is thought to function as an adhesion molecule for attachment of stem cells to extracellular matrix or stromal cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse CD34 transfected BHK cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	The HM34 antibody does not stain bone marrow cells like some other mouse CD34 antibodies, probably because the antibody recognizes a different epitope from other mAbs.

Product Citations

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7. Park M, *et al.* 2021. BMB Rep. 54:470. [PubMed](#)
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RRID AB_10553895 (BioLegend Cat. No. 128611)
 AB_10553896 (BioLegend Cat. No. 128612)

Antigen Details

Structure	Type I membrane protein, highly glycosylated, 75-120 kd, two isoforms reported.
Distribution	Hematopoietic progenitors, brain, testis, endothelial cells
Function	Possible adhesion molecules thought to function in early hematopoiesis by mediating attachment of stem cells to bone marrow extracellular matrix or stromal cells. Present carbohydrate ligands to selectins.
Ligand/Receptor	L-selectin, and others.
Cell Type	Endothelial cells, Hematopoietic stem and progenitors
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Garlanda C, <i>et al.</i> 1997. <i>Eur J Cell Biol</i> 73:368 2. Brown J, <i>et al.</i> 1991. <i>Int Immunol</i> 3:175
Gene ID	12490

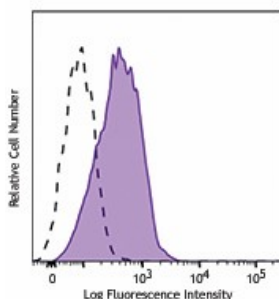
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD34, Biotin anti-mouse CD34, Alexa Fluor® 647 anti-mouse CD34, PerCP/Cyanine5.5 anti-mouse CD34, PE anti-mouse CD34, APC anti-mouse CD34, APC/Fire™ 750 anti-mouse CD34, PE/Dazzle™ 594 anti-mouse CD34, PE/Cyanine7 anti-mouse CD34, TotalSeq™-A0857 anti-mouse CD34, APC/Cyanine7 anti-mouse CD34, TotalSeq™-C0857 anti-mouse CD34, TotalSeq™-B0857 anti-mouse CD34

Product Data



Mouse fibroblast NIH/3T3 cells were stained with CD34 (Clone HM34) APC (filled histogram) or Armenian hamster IgG APC isotype control (open histogram).

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