



PE/Cyanine7 anti-mouse CD34 Antibody

Catalog# / Size 128617 / 25 μg

128618 / 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 PE/Cyanine7 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 = 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Excitation Laser Blue Laser (488 nm)

Green Laser (532 nm)/Yellow-Green Laser (561 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.

Additional Product Notes BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule

remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <u>Technical Service</u> if you have any questions.

Product Citations

1. Sharma GP, et al. 2021. PLoS One. 16:e0259042. PubMed

RRID AB_2721677 (BioLegend Cat. No. 128617)

AB_2721678 (BioLegend Cat. No. 128618)

Antigen Details

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, et al. 1997. Eur J Cell Biol 73:368

2. Brown J, et al. 1991. Int Immunol 3:175

Gene ID <u>12490</u>

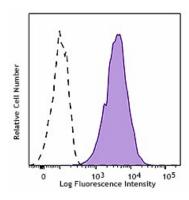
Related Protocols

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) PE/Cyanine7 (filled histogram) or Armenian hamster IgG PE/Cyanine7 isotype control (open histogram).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587