

APC anti-mouse CD34 Antibody

Catalog# / Size	152215 / 25 µg 152216 / 100 µg
Clone	SA376A4
Regulatory Status	RUO
Other Names	My10, gp105-120, mucosialin
Isotype	Rat IgG2a, λ
Description	CD34, also known as gp105-120, is a highly glycosylated type I monomeric sialomucin-like glycoprophoprotein with an approximate molecular weight of 105-120 kD, with two generated by alternative splicing. CD34 is expressed on hematopoietic progenitors, endothelial cells, brain, and testis. CD34 mediates cell adhesion and lymphocytes homing through binding to L-selectin and E-selectin ligands, and mediates the attachment of stem cells to the extracellular matrix or stromal cells. CD34 is phosphorylated on serine residues by PKC.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD34 transfected 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	This antibody (clone SA376A4) is useful for staining mouse CD34 ⁺ hematopoietic stem cell but it does not stain NIH-3T3 cells and the staining of Bend.3 cells is dimmer compared to other mouse CD34 antibodies, probably due to this antibody recognizes a different epitope than the other monoclonal antibodies.
RRID	AB_2910310 (BioLegend Cat. No. 152215) AB_2910310 (BioLegend Cat. No. 152216)

Antigen Details

Structure	Type I monomeric glycoprophoprotein with an approximate molecular weight of 105-120 kD.
Distribution	Hematopoietic progenitors, endothelial cells, brain and testis tissues.
Function	Cell adhesion and homing.

Interaction	PKC.
Ligand/Receptor	L-selectin and E-selectin.
Cell Type	Endothelial cells, Hematopoietic stem and progenitors
Biology Area	Cell Adhesion, Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Garlanda C, <i>et al.</i> 1997. <i>Eur J Cell Biol.</i> 73:368-77. 2. Brown J, <i>et al.</i> 1991. <i>Int Immunol.</i> 3:175. 3. Suda J, <i>et al.</i> 1992. <i>Blood.</i> 79:2288-95. 4. Baumhueter S, <i>et al.</i> 1994. <i>Blood.</i> 84:2554.
Gene ID	12490

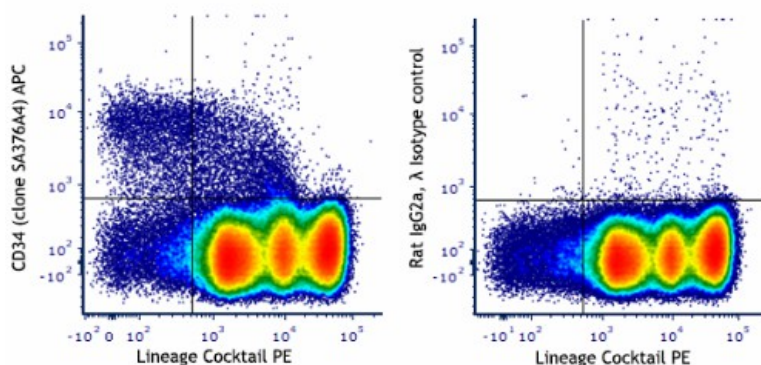
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse CD34, Alexa Fluor® 647 anti-mouse CD34, Brilliant Violet 421™ anti-mouse CD34, PE/Dazzle™ 594 anti-mouse CD34, TotalSeq™-C0823 anti-mouse CD34, TotalSeq™-B0823 anti-mouse CD34 Antibody, APC anti-mouse CD34, PE/Cyanine7 anti-mouse CD34, TotalSeq™-A0823 anti-mouse CD34

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse Lineage Cocktail PE and anti-mouse CD34 (clone SA376A4) APC (left) or rat IgG2a, λ APC isotype control (right). Data shown was gated on the total cell population.

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