

## Biotin anti-mouse CD34 Antibody

<b>Catalog# / Size</b>	128603 / 50 µg 128604 / 500 µg
<b>Clone</b>	HM34
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Mucosialin
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Mouse CD34 transfected BHK cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Application Notes</b>	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.
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Fujii T, <i>et al.</i> 2021. Bone Res. 9:4. <a href="#">PubMed</a></li><li>2. Fielding C, <i>et al.</i> 2022. Nat Commun. 13:543. <a href="#">PubMed</a></li><li>3. Bae S, <i>et al.</i> 2021. Cell Reports. 35(11):109264. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_1236370 (BioLegend Cat. No. 128603) AB_1236371 (BioLegend Cat. No. 128604)

### Antigen Details

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<b>Structure</b>	Type I membrane protein, highly glycosylated, 75-120 kd, two isoforms reported.
<b>Distribution</b>	Hematopoietic progenitors, brain, testis, endothelial cells
<b>Function</b>	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.

<b>Ligand/Receptor</b>	L-selectin, and others.
<b>Cell Type</b>	Endothelial cells, Hematopoietic stem and progenitors
<b>Biology Area</b>	Cell Biology, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	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
<b>Gene ID</b>	<a href="#">12490</a>

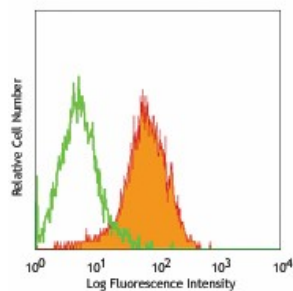
## Related Protocols

[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



NIH/3T3 cell line stained with HM34 biotin, followed by Sav-PE

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