

PE anti-human CD135 (Flt-3/Flk-2) Antibody

Catalog# / Size	313305 / 25 tests 313306 / 100 tests
Clone	BV10A4H2
Regulatory Status	RUO
Other Names	FMS-like tyrosine kinase-3, FLT-3, STK-1, Flk-2
Isotype	Mouse IgG1, κ
Description	CD135 is a 130-160 kD type III tyrosine kinase receptor expressed on CD34 ⁺ hematopoietic stem cells, myelomonocytic progenitors, primitive B cell progenitors, and thymocytes. CD135 is also expressed on malignant hematopoietic cells including AML, ALL and CML-BC. CD135, also known as FMS-like tyrosine kinase-3, FLT3, STK-1, and Flk-2, is a growth factor receptor that binds the FLT3 ligand to promote the growth and differentiation of primitive hematopoietic cells. The intracytoplasmic domain of CD135 is modified by phosphorylation and has been shown to interact with Grb2, SOCS1, VAV1, and Shc.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	BV-173 pro-B cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	<ol style="list-style-type: none">1. Fleischmann M, <i>et al.</i> 2021. Cells. 10: PubMed2. Lu YC, <i>et al.</i> 2018. Cell Rep. 25:2083. PubMed3. Pellin D, <i>et al.</i> 2019. Nat Commun. 10:2395. PubMed4. Ward D, <i>et al.</i> 2016. Haematologica. 101: 286 - 296. PubMed
RRID	AB_314990 (BioLegend Cat. No. 313305) AB_314991 (BioLegend Cat. No. 313306)

Antigen Details

Structure	Member of the immunoglobulin supergene family, type 3 tyrosine kinase receptor; 130-160 kD
Distribution	Expressed on CD34 ⁺ hematopoietic stem cells, myelomonocytic progenitors, primitive B cell

progenitors, and thymocytes. Also expressed on AML, ALL and CML-BC tumor cells

Function	Tyrosine kinase growth factor receptor involved in the growth and differentiation of primitive hematopoietic cells
Ligand/Receptor	FLT3 ligand
Cell Type	B cells, Hematopoietic stem and progenitors, Leukemia, Thymocytes
Biology Area	Cell Biology, Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	<ol style="list-style-type: none">1. Rappold I, <i>et al.</i> 1997. <i>Blood</i> 90:111.2. Rosnet O, <i>et al.</i> 1996. <i>Acta Haematol.</i> 95:218.3. Rosnet O, <i>et al.</i> 1996. <i>Leukemia</i> 10:238.4. Bertho JM, <i>et al.</i> 2000. <i>Scand. J. Immunol.</i> 52:53.
Gene ID	2322

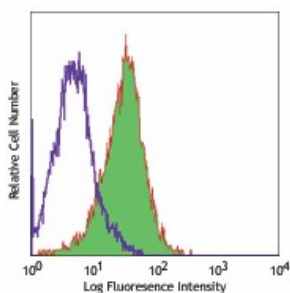
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD135 (Flt-3/Flk-2), PE anti-human CD135 (Flt-3/Flk-2), APC anti-human CD135 (Flt-3/Flk-2), PE/Cyanine5 anti-human CD135 (Flt-3/Flk-2), Biotin anti-human CD135 (Flt-3/Flk-2), PE/Cyanine7 anti-human CD135 (Flt-3/Flk-2), PerCP/Cyanine5.5 anti-human CD135 (Flt-3/Flk-2), TotalSeq™-A0351 anti-human CD135 (Flt-3/Flk-2), PE/Dazzle™ 594 anti-human CD135 (Flt-3/Flk-2), TotalSeq™-B0351 anti-human CD135 (Flt-3/Flk-2), TotalSeq™-C0351 anti-human CD135 (Flt-3/Flk-2), TotalSeq™-D0351 anti-human CD135 (Flt-3/Flk-2)

Product Data



Human pre-B cell line REH stained with BV10A4H2 PE

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