

PE anti-human CD202b (Tie2/Tek) Antibody

Catalog# / Size	390553 / 25 tests 390554 / 100 tests
Clone	A19069E
Regulatory Status	RUO
Isotype	Mouse IgG2a, κ
Description	CD202b, also known as Tie2 or TEK, is a 145 kD type I transmembrane protein. It is a member of the receptor tyrosine kinase (RTK) family of proteins and is expressed by endothelial cells and their progenitors, quiescent hematopoietic stem cells (HSCs), and a subpopulation of monocytes. Angiopoietin-1 (Ang-1) is an activator of CD202b to promote, maintain, and stabilize mature vessels and to maintain HSCs in quiescent state. Ang-2 is another ligand of CD202b, which is involved in postnatal angiogenesis and in antagonizing the effects of Ang-1. Tie2 binds to Ang-4 as well.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant extracellular domain of human Tie2
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 and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. 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	Clone A19069E partially block the staining of reference clone 33.1 Recombinant protein completely blocks the staining of test clone A19069E
RRID	AB_3675121 (BioLegend Cat. No. 390553) AB_3675121 (BioLegend Cat. No. 390554)

Antigen Details

Structure	145 kD type I transmembrane protein, receptor tyrosine kinase (RTK) family
Distribution	Endothelial cells, subsets of hematopoietic stem cells and and a subset of monocytes

Function	Angiogenesis, hematopoiesis, monocytes chemotaxis
Interaction	Endothelial cells, hematopoietic stem and progenitors, monocytes
Ligand/Receptor	Angiopoietin-1 (Ang-1), Ang-2, and Ang-4
Cell Type	Endothelial cells, Hematopoietic stem and progenitors, Monocytes
Biology Area	Angiogenesis, Cell Biology, Immunology
Molecular Family	CD Molecules

Antigen References

1. De Palma M, *et al.* 2005. *Cancer Cell*. 8:211-26.
2. Shaw JP, *et al.* 2004. *Blood Cells Mol Dis*. 32:168-75.
3. Hsu HC, *et al.* 2000. *Blood*. 96:3757-62.
4. Arai F, *et al.* 2004. *Cell*. 118:149-61.

Gene ID [7010](#)

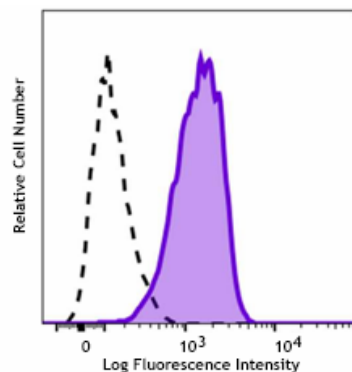
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human CD202b (Tie2/Tek), Purified anti-human CD202b (Tie2/Tek)

Product Data



Human endothelial cell line, HUVEC, were stained with anti-human CD202b (Tie2/Tek) (clone A19069E) PE (filled histogram) or mouse IgG2a, κ PE isotype control (open histogram).

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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