

PE anti-human CD202b (Tie2/Tek)

Catalog # / Size: 2271025 / 25 tests
2271030 / 100 tests

Clone: 33.1 (Ab33)

Isotype: Mouse IgG1 κ

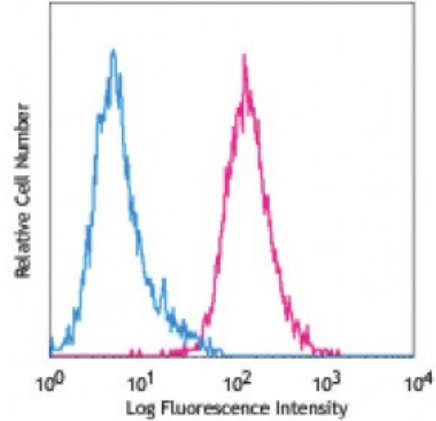
Immunogen: Recombinant extracellular domain of human Tie2

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human endothelial cell line, HUVEC, stained with 33.1 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications include: immunoprecipitation, Western blot, immunohistochemical staining of frozen tissue sections and ELISA

- Application References:**
1. Peters KG, *et al.* 1998. *Br. J. Cancer.* 77:51.
 2. Wong AL, *et al.* 1997. *Circ. Res.* 81:567.
 3. Lin P, *et al.* 1998. *P. Natl. Acad. Sci. USA* 95:8829.
 4. Adams DL, *et al.* 2014. *PNAS.* 110:3514. [PubMed](#)

Description: CD202b is a 145 kD type I transmembrane protein, also known as Tie2 or TEK. 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.

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