

# Product Data Sheet

## PE anti-human CD202b (Tie2/Tek)

**Catalog # / Size:** 334205 / 25 tests  
334206 / 100 tests

**Clone:** 33.1 (Ab33)

**Isotype:** Mouse IgG1  $\kappa$

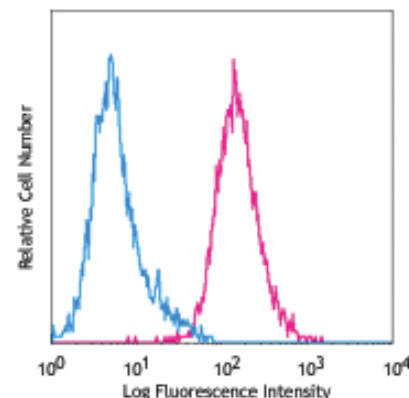
**Immunogen:** Recombinant extracellular domain of human Tie2

**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).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human endothelial cell line, HUVEC, stained with 33.1 PE

## Applications:

**Applications:** FC -Quality tested

**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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**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.

**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.* 118:149

### Related Products:

Product  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
PE Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
FC, ICFC  
FC  
FC, ICC, ICFC



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