

PE anti-mouse CD202b (Tie-2, CD202)

Catalog # / Size: 1220035 / 50 µg
1220040 / 200 µg

Clone: TEK4

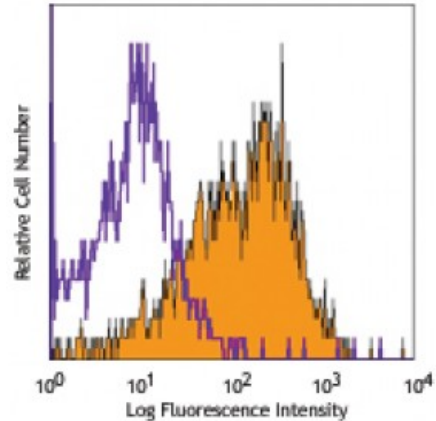
Isotype: Rat IgG1, κ

Reactivity: Mouse

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.

Concentration: 0.2

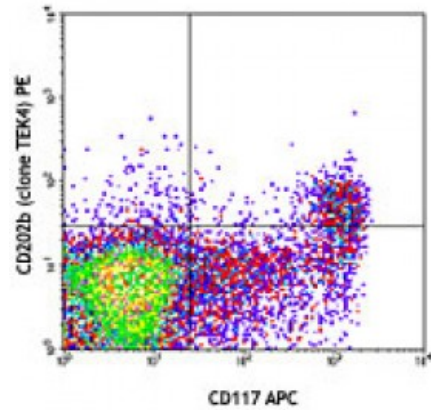


BEND.3, mouse endothelial cells stained with TEK4 PE

Applications:

Applications: Flow Cytometry

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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



Ly-6G and B220 double negative C57BL/6 mouse bone marrow cells were stained with CD117 APC and CD202b (clone TEK4) PE (top) or rat IgG1, κ PE isotype control (bottom).

- Application References:**
1. Fathers KE, *et al.* 2005. *Am. J. Pathol.* 167:1753.
 2. Sanchez-Martin L, *et al.* 2011. *Blood* 117:88. [PubMed](#)
 3. Carrer A, *et al.* 2012. *Cancer Res.* 72:6371. [PubMed](#)
 4. Liu X, *et al.* 2013. *Invest Ophthalmol Vis Sci.* 54:7386. [PubMed](#)

Description: CD202b, also known as Tie-2 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 the quiescent state. Ang-2 is another ligand of CD202b, which is involved in postnatal angiogenesis and in antagonizing the effects of Ang-1. Tie-2 also binds to Ang-4.

- Antigen References:**
1. Fathers KE, *et al.* 2005. *Am. J. Pathol.* 167:1753.
 2. Yano M, *et al.* 1997. *Blood* 89:431726.
 3. Kolatsi-Joannou M, *et al.* 2001. *Dev. Dyn.* 222:1206.

