

# Product Data Sheet

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

**Catalog # / Size:** 124007 / 50 µg  
124008 / 200 µg

**Clone:** TEK4

**Isotype:** Rat IgG1, κ

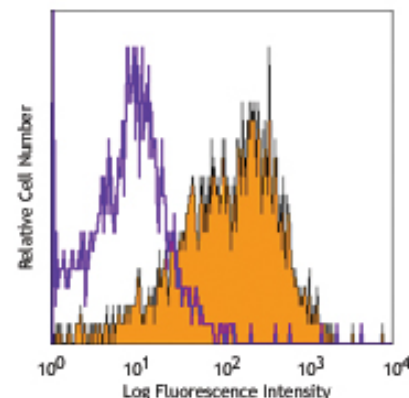
**Reactivity:** Mouse

**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 mg/ml

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



BEND.3, mouse endothelial cells stained with TEK4 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**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.

**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.

### Related Products:

Product

Cell Staining Buffer

PE Rat IgG1, κ Isotype Ctrl

TruStain fcX™ (anti-mouse CD16/32)

### Clone

RTK2071

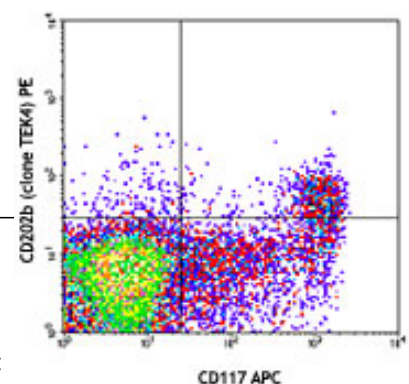
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### Application

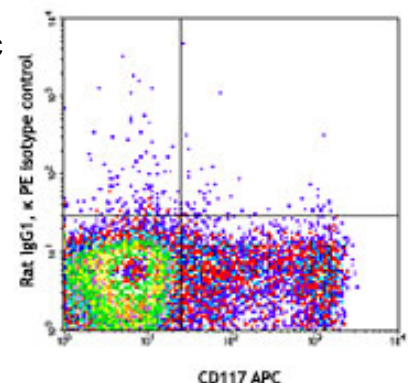
FC, ICC, ICFC

FC, ICFC

FC



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).



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