SONY

Product Data Sheet

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

Catalog # / Size: 1220025 / 50 µg
1220030 / 200 µg

Clone: TEK4

Isotype: Rat IgG1, κ

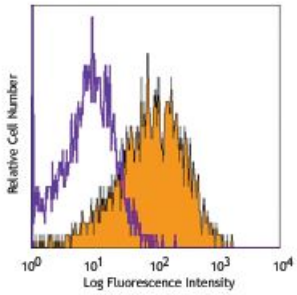
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: HCDM listed

Concentration: 0.5



BEND.3 mouse endothelial cells stained with TEK4 biotin, followed by Sav-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 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

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.

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