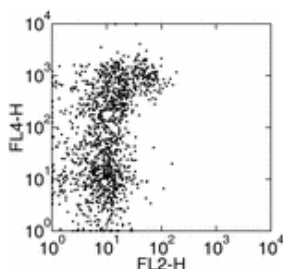


Anti-Mouse CD202b (TIE2) Purified

Catalog Number: 14-5987

Also Known As: TIE-2, TEK, CD202

RUO: For Research Use Only



Staining of mouse bone marrow with Anti-Mouse CD202b (TIE2) PE and Anti-Mouse Ly-6A/E (Sca-1) APC (cat 17-5981) + Anti-Mouse CD117 (c-Kit) APC (cat 17-1171). Total viable lineage negative cells were used for analysis.

Product Information

Contents: Anti-Mouse CD202b (TIE2) Purified

REF Catalog Number: 14-5987

Clone: TEK4

Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The TEK4 monoclonal antibody reacts with mouse Tie-2, also known as CD202. A member of the tyrosine kinase receptor family, Tie-2 is expressed on endothelial and a subset of hematopoietic cells and is believed to play a role in both angiogenesis and hematopoiesis during development of the mouse embryo. In fetal liver and adult bone marrow, Tie-2 is expressed by a subpopulation of hematopoietic progenitor cells characterized as Lineage markers⁻, c-Kit⁺, Sca1⁺ cells. Long-term multilineage repopulating cells were detected in Tie-2⁺, Lineage⁻, c-Kit⁺, Sca1⁺ cells but not in Tie-2⁻, Lineage⁻, c-Kit⁺, Sca1⁺ cells.

Applications Reported

This TEK4 antibody has been reported for use in flow cytometric analysis, and immunohistology staining of frozen tissue sections.

Applications Tested

The TEK4 antibody has been tested by blocking of staining with fluorochrome conjugated TEK4 on mouse bone marrow cells. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Tang Y, Borgstrom P, Maynard J, Koziol J, Hu Z, Garen A, Deisseroth A. Mapping of angiogenic markers for targeting of vectors to tumor vascular endothelial cells. *Cancer Gene Ther.* 2007 Apr;14(4):346-53. (TEK4, IHC frozen, PubMed)

Lelievre E, Bourbon PM, Duan LJ, Nussbaum RL, Fong GH. Deficiency in the p110alpha subunit of PI3K results in diminished Tie2 expression and Tie2(-/-)-like vascular defects in mice. *Blood.* 2005 May 15;105(10):3935-8. (TEK4, IHC, PubMed)

Kolatsi-Joannou M, Li XZ, Suda T, Yuan HT, Woolf AS. Expression and potential role of angiopoietins and Tie-2 in early development of the mouse metanephros. *Dev Dyn.* 2001 Sep;222(1):120-6.

Hsu HC, Ema H, Osawa M, Nakamura Y, Suda T, Nakauchi H. Hematopoietic stem cells express Tie-2 receptor in the murine fetal liver. *Blood.* 2000 Dec 1;96(12):3757-62.

Hamaguchi I, Huang XL, Takakura N, Tada J, Yamaguchi Y, Kodama H, Suda T. In vitro hematopoietic and endothelial cell development from cells expressing TEK receptor in murine aorta-gonad-mesonephros region. *Blood.* 1999 Mar 1;93(5):1549-56.

Yano M, Iwama A, Nishio H, Suda J, Takada G, Suda T. Expression and function of murine receptor tyrosine kinases, TIE and TEK, in hematopoietic stem cells. *Blood.* 1997 Jun 15;89(12):4317-26.

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4301 Rat IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com