

Product Information

Contents: Functional Grade Purified anti-mouse Tie-2 (Tek, CD202)

Catalog Number: 16-5987

Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, No NaN₃

Storage Conditions: Store at 4°C.

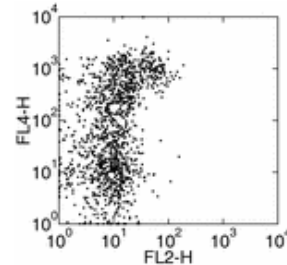
Avoid repeated freeze/thaw cycles.

KEEP CONTENTS STERILE.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined
by the LAL assay.

Clone: TEK4

Isotype: Rat IgG1, κ



Two-color surface staining of mouse bone marrow with anti-mouse CD202b (TEK4) PE and Sca-1 (D7) + c-Kit (2B8) APC. Total viable lineage negative cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-5987	Affinity Purified anti-mouse Tie-2 (Tek, CD202)	N/A	N/A	FC
16-5987	Functional Grade* Purified anti-mouse Tie-2 (Tek, CD202)	N/A	N/A	FC
13-5987	Biotin anti-mouse Tie-2 (Tek, CD202)	N/A	N/A	FC
12-5987	PE anti-mouse Tie-2 (Tek, CD202)	488	575	FC
56-5987	Alexa Fluor® 700 anti-mouse Tie-2 (Tek, CD202)	633	723	FC
*Functional Grade™ (FG™) Purified: Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg (unless otherwise noted).				
*Functional Grade™ (FG™) Biotin: Azide-free, sterile-filtered, and endotoxin < 0.05 ng/μg. Purified: Contains azide, not sterile-filtered, and not endotoxin tested.				

Questions? Please consult our answers to frequently asked questions at <http://www.ebioscience.com/faq>.

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.

Usage

For research use only, not for diagnostic or therapeutic use. The TEK4 antibody has been reported for use in flow cytometric analysis.

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 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 16-4301 Functional Grade Purified Rat IgG1 Isotype Control
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)

- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
 - Cat. 11-4811 FITC Anti-Rat IgG
 - Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)
 - Cat. 12-5987 PE anti-mouse Tie-2 (Tek, CD202) (clone TEK4)
 - Cat. 13-5987 Biotin anti-mouse Tie-2 (Tek, CD202) (clone TEK4)
 - Cat. 14-5987 Affinity Purified anti-mouse Tie-2 (Tek, CD202) (clone TEK4)
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References

Kolatsi-Joannou M, Li XZ, et al. 2001. Expression and potential role of angiopoietins and Tie-2 in early development of the mouse metanephros. *Dev Dyn.* 222(1): 120-6. Hsu HC, Ema H, et al. 2000. Hematopoietic stem cells express Tie-2 receptor in the murine fetal liver. *Blood.* 96(12): 3757-62. Hamaguchi I, Huang XL, et al. 1999. In vitro hematopoietic and endothelial cell development from cells expressing TEK receptor in murine aorta-gonad-mesonephros region. *Blood.* 93(5): 1549-56. Yano M, Iwama A, et al. 1997. Expression and function of murine receptor tyrosine kinases, TIE and TEK, in hematopoietic stem cells. *Blood.* 89(12): 4317-26.

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