

CD202b (TIE2) Monoclonal Antibody (TEK4), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TEK4
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_469188

Applications	Tested Dilution	Publications
Control (Ctrl)	Assay-Dependent	-
Flow Cytometry (Flow)	1 µg/test	6 Publications
Functional Assay (FN)	Assay-Dependent	-
Immunofluorescence (IF)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications

Product Specific Information

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: 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 test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

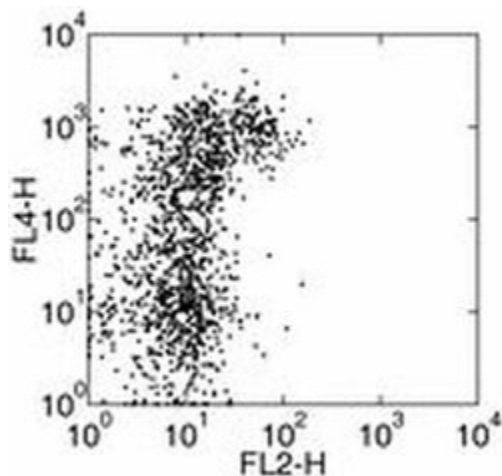
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

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

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD202b (TIE2) Monoclonal Antibody (TEK4), Functional Grade, eBioscience™



CD202b (TIE2) Antibody (16-5987-82) in Flow

Staining of mouse bone marrow with Anti-Mouse CD202b (TEK4) PE and Anti-Mouse Ly-6A/E (Sca-1) APC (Product # 17-5981-82) + Anti-Mouse CD117 (c-kit) APC (Product # 17-1171-82). Total viable lineage negative cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

15 References

Immunohistochemistry (3)

Science translational medicine

Neoadjuvant chemotherapy induces breast cancer metastasis through a TMEM-mediated mechanism.

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 16-5987-82) in Immunohistochemistry"

Authors: Karagiannis GS, Pastoriza JM, Wang Y, Harney AS, Entenberg D, Pignatelli J, Sharma VP, Xue EA, Cheng E, D'Alfonso TM, Jones JG, Anampa J, Rohan TE, Sparano JA, Condeelis JS, Oktay MH

Species

Not Applicable

Dilution

Not Cited

Year

2017

Molecular cancer therapeutics

The Selective Tie2 Inhibitor Rebastinib Blocks Recruitment and Function of Tie2^{Hi} Macrophages in Breast Cancer and Pancreatic Neuroendocrine Tumors.

"16-5987 was used in Immunohistochemistry-immunofluorescence to study the use of rebastinib in breast cancer and pancreatic neuroendocrine tumours."

Authors: Harney AS, Karagiannis GS, Pignatelli J, Smith BD, Kadioglu E, Wise SC, Hood MM, Kaufman MD, Leary CB, Lu WP, Al-Ani G, Chen X, Entenberg D, Oktay MH, Wang Y, Chun L, De Palma M, Jones JG, Flynn DL, Condeelis JS

Species

Mouse
Not Applicable

Dilution

Not Cited
Not Cited

Year

2017

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (Frozen) (1)

Cancer gene therapy

Mapping of angiogenic markers for targeting of vectors to tumor vascular endothelial cells.

Authors: Tang Y, Borgstrom P, Maynard J, Koziol J, Hu Z, Garen A, Deisseroth A

Species

Not Applicable

Dilution

Not Cited

Year

2007

Immunofluorescence (5)

Developmental cell

Dynamic Gene Regulatory Networks Drive Hematopoietic Specification and Differentiation.

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 16-5987-82) in Immunofluorescence"

Authors: Goode DK, Obier N, Vijayabaskar MS, Lie-A-Ling M, Lilly AJ, Hannah R, Lichtinger M, Batta K, Florkowska M, Patel R, Challinor M, Wallace K, Gilmour J, Assi SA, Cauchy P, Hoogenkamp M, Westhead DR, Lacaud G, Kouskoff V, Göttgens B, Bonifer C

Species

Human

Dilution

Not Cited

Year

2016

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More applications with references on thermofisher.com

Flow (6)

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