

CD202b (TIE2) Monoclonal Antibody (TEK4), Biotin, eBioscience™

Product Details	
Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse, Human
Expression System	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TEK4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466848

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	18 Publications
Immunofluorescence (IF)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication

Product Specific Information

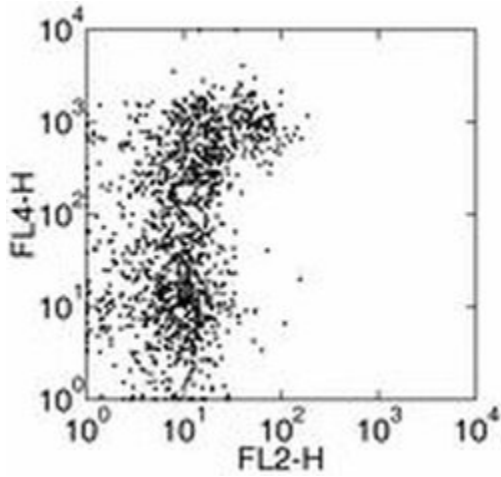
Description: The TEK4 monoclonal antibody reacts with mouse Tie-2, also known as CD202. A member of the tyrosine kinase receptor family, Tie-2 is expressed on endothelial and a subset of hematopoietic cells and is believed to play a role in both angiogenesis and hematopoiesis during development of the 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: This TEK4 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 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.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD202b (TIE2) Antibody (13-5987-82) in Flow

Staining of mouse bone marrow with Anti-Mouse Ly-6A/E (Sca-1) APC (Product # 17-5981-82) and Anti-Mouse CD117 (c-Kit) APC (Product # 17-1171-82) and Anti-Mouse CD202b (TIE2) PE Total viable lineage negative cells were used for analysis.

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

Flow Cytometry (18)

Bone research

Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification.

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 13-5987-82) in Flow Cytometry"

Authors: Hwang C,Marini S,Huber AK,Stepien DM,Sorkin M,Loder S,Pagani CA,Li J,Visser ND,Vasquez K,Garada MA, Li S,Xu J,Hsu CY,Yu PB,James AW,Mishina Y,Agarwal S,Li J,Levi B

Species
Artificial Control

Dilution
Not Cited

Year
2020

Nature communications

Macrophages orchestrate breast cancer early dissemination and metastasis.

"13-5987 was used in Flow cytometry/Cell sorting to show that, in pre-malignant lesions, CCL2 produced by cancer cells and myeloid cells attracts CD206+/Tie2+macrophages and induces Wnt-1 upregulation that in turn downregulates E-cadherin junctions in the HER2+early cancer cells."

Authors: Linde N,Casanova-Acebes M,Sosa MS,Mortha A,Rahman A,Farias E,Harper K,Tardio E,Reyes Torres I,Jones J,Condeelis J,Merad M,Aguirre-Ghiso JA

Species
Mouse

Dilution
1:100

Year
2018

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

Immunofluorescence (5)

Molecular cancer therapeutics

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

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 13-5987-82) in Immunofluorescence"

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
Not Applicable

Dilution
Not Cited

Year
2017

Science translational medicine

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

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 13-5987-82) 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

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

More applications with references on thermofisher.com

IHC (3)

IHC (F) (2)

IHC (P) (1)

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