

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

Product Details

Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse
Expression System	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TEK4
Conjugate	PE
Form	Liquid
Concentration	0.2 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_466100

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µg/test	31 Publications
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	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.

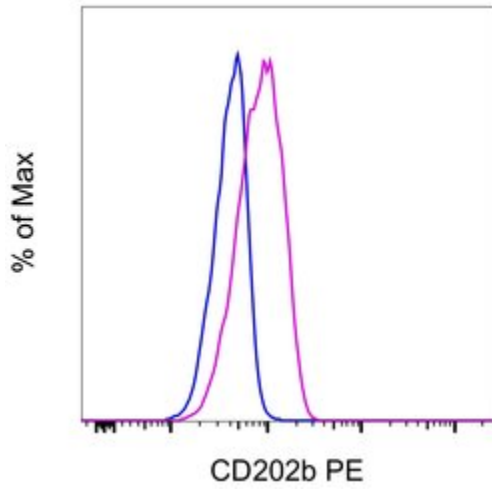
Applications Reported: The TEK4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The TEK4 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 2 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD202b (TIE2) Antibody (12-5987-82) in Flow

bEnd.3 cells were stained with 1.0 µg of Rat IgG1 kappa Isotype Control, PE (Product # 12-4301-83) (blue histogram) or 1.0 µg of CD202b Monoclonal Antibody, PE (Product # 00-6993-50).

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

34 References

Flow Cytometry (31)

Bone research

Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification.

"Published figure using CD202b (TIE2) monoclonal antibody (Product # 12-5987-82) 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

Epigenetics and chromatin

Robust hematopoietic specification requires the ubiquitous Sp1 and Sp3 transcription factors.

"12-5987 was used in Flow cytometry/Cell sorting to study the molecular details of how ubiquitous factors are involved in programming tissue specific chromatin."

Authors: Gilmour J,O'Connor L,Middleton CP,Keane P,Gillemans N,Cazier JB,Philipsen S,Bonifer C

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunofluorescence (1)

Cancer research

Angiopietin-2 regulates gene expression in TIE2-expressing monocytes and augments their inherent proangiogenic functions.

"12-5987 was used in Immunohistochemistry-immunofluorescence to show that exposure of circulating TEMs to tumor-derived ANG-2 stimulates these cells to exhibit a broader, tumor-promoting phenotype."

Authors: Coffelt SB,Tal AO,Scholz A,De Palma M,Patel S,Urbich C,Biswas SK,Murdoch C,Plate KH,Reiss Y,Lewis CE

Species
Mouse

Dilution
1:50

Year
2010

Immunohistochemistry (1)

Cancer research

Angiopietin-2 regulates gene expression in TIE2-expressing monocytes and augments their inherent proangiogenic functions.

"12-5987 was used in Immunohistochemistry-immunofluorescence to show that exposure of circulating TEMs to tumor-derived ANG-2 stimulates these cells to exhibit a broader, tumor-promoting phenotype."

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Species
Mouse

Dilution
1:50

Year
2010

More applications with references on thermofisher.com

IHC (F) (1)

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