CD117 (c-Kit) Monoclonal Antibody (2B8), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Pig
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574037

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.25 µg/test	65 Publications

Product Specific Information

Description: The 2B8 monoclonal antibody reacts with mouse CD117, also known as c-Kit receptor, Steel factor receptor, and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145-kDa molecule is expressed by a majority of hematopoietic progenitor cells characterized in the mouse bone marrow as a small subset of cells positive for Sca-1 and Thy1 (Thy1 low) and negative for lineage markers. The interaction of the mouse c-Kit receptor and steel factor promotes the proliferation and differentiation of hematopoietic progenitor cells. CD117 is also expressed by mast cells and plays a role in signaling and activation of these cells.

Applications Reported: This 2B8 antibody has been reported for use in flow cytometric analysis.

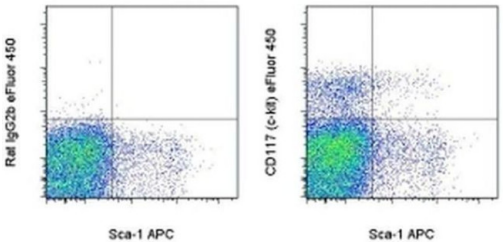
Applications Tested: This 2B8 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD117 (c-Kit) Monoclonal Antibody (2B8), eFluor™ 450, eBioscience™



CD117 (c-Kit) Antibody (48-1171-82) in Flow
Staining of C57Bl/6 bone marrow cells with Anti-Mouse Ly-6A/E (Sca-1) APC (Product # 17-5981-82) and 0.125 µg of Rat IgG2b K Isotype Control eFluor® 450 (Product # 48-4031-82) (left) or 0.125 µg of Anti-Mouse CD117 (c-Kit) eFluor® 450 (right). Lineage negative/low cells were used for analysis.

View more figures on thermofisher.com

73 References

Immunohistochemistry (4)

Nature communications

Year 2015

Notch signal strength controls cell fate in the haemogenic endothelium.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunofluorescence"

Authors: Gama-Norton L,Ferrando E,Ruiz-Herguido C,Liu Z,Guiu J,Islam AB,Lee SU,Yan M,Guidos CJ,López-Bigas N, Maeda T,Espinosa L,Kopan R,Bigas A

Nature

Year 2015

Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Flow Cytometry"

Authors: Acar M,Kocherlakota KS,Murphy MM,Peyer JG,Oguro H,Inra CN,Jaiyeola C,Zhao Z,Luby-Phelps K,Morrison SJ

View more IHC references on thermofisher.com

Immunocytochemistry (4)

Stem cells (Dayton, Ohio)

Year 2021

Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunocytochemistry"

Authors: Koeniger T,Bell L,Mifka A,Enders M,Hautmann V,Mekala SR,Kirchner P,Ekici AB,Schulz C,Wörsdörfer P, Mencl S,Kleinschnitz C,Ergün S,Kuerten S

Scientific reports

Year 2017

Erythro-myeloid progenitors can differentiate from endothelial cells and modulate embryonic vascular remodeling.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunofluorescence"

Authors: Kasaai B,Caolo V,Peacock HM,Lehoux S,Gomez-Perdiguero E,Luttun A,Jones EA

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More applications with references on thermofisher.com

Flow (65)