

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.

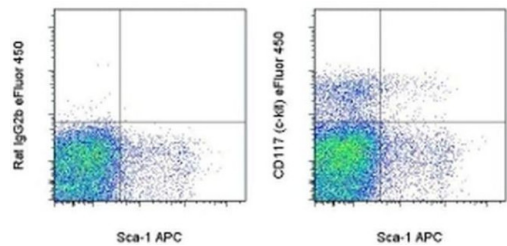
Applications Tested: This 2B8 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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 fluorochrome.

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.

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Immunohistochemistry (4)

<p>Nature communications</p> <p>Notch signal strength controls cell fate in the haemogenic endothelium.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunofluorescence"</p> <p>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</p>	<p>Year 2015</p>
<p>Nature</p> <p>Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Flow Cytometry"</p> <p>Authors: Acar M,Kocherlakota KS,Murphy MM,Peyer JG,Oguro H,Inra CN,Jaiyeola C,Zhao Z,Luby-Phelps K,Morrison SJ</p>	<p>Year 2015</p>

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

Immunocytochemistry (4)

<p>Stem cells (Dayton, Ohio)</p> <p>Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunocytochemistry"</p> <p>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</p>	<p>Year 2021</p>
<p>Scientific reports</p> <p>Erythro-myeloid progenitors can differentiate from endothelial cells and modulate embryonic vascular remodeling.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 48-1171-82) in Immunofluorescence"</p> <p>Authors: Kasaai B,Caolo V,Peacock HM,Lehoux S,Gomez-Perdiguero E,Luttun A,Jones EA</p>	<p>Year 2017</p>

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Flow (65)

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