

# CD117 (c-Kit) Monoclonal Antibody (2B8), FITC, eBioscience™

## Product Details

Size	50 µg
Species Reactivity	Mouse, Pig
Published Species	Fish, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_465185

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	7 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	85 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## 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.

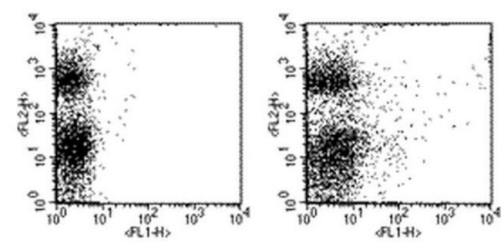
**Applications Reported:** The 2B8 antibody has been reported for use in flow cytometric analysis.

**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 0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



**CD117 (c-Kit) Antibody (11-1171-81) in Flow**  
Staining of mouse bone marrow cells with Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) and 0.25 µg of Rat IgG2b K Isotype Control FITC (Product # 11-4031-82) (left) or 0.25 µg of Anti-Mouse CD117 (c-Kit) FITC (right). Total viable cells were used for analysis.

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Western Blot (1)

<p>Circulation research</p> <p><b>Abi3bp regulates cardiac progenitor cell proliferation and differentiation.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 11-1171-82) in Flow Cytometry"</p> <p>Authors: Hodgkinson CP,Gomez JA,Payne AJ,Zhang L,Wang X,Dal-Pra S,Pratt RE,Dzau VJ</p>	<p>Year</p> <p>2014</p>
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Immunohistochemistry (7)

<p>Hypertension (Dallas, Tex. : 1979)</p> <p><b>Reduced Nhe1 (Na<sup>+</sup>-H<sup>+</sup> Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)-Induced Abdominal Aortic Aneurysms.</b></p> <p>"11-1171-82 was used in Immunohistochemistry to establish a direct role of Nhe1 in AAA pathogenesis."</p> <p>Authors: Liu CL,Liu X,Wang Y,Deng Z,Liu T,Sukhova GK,Wojtkiewicz GR,Tang R,Zhang JY,Achilefu S,Nahrendorf M,Libby P,Wang X,Shi GP</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:50</p>
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<p>Arthritis &amp; rheumatology (Hoboken, N.J.)</p> <p><b>Detection of Subclinical Arthritis in Mice by a Thrombin Receptor-Derived Imaging Agent.</b></p> <p>"11-1171 was used in Immunohistochemistry-immunofluorescence to examine coagulation protease activities in arthritic mice with a dual-fluorescence ratiometric activatable cell-penetrating peptide that has a linker, norleucine-TPRSFL, with a cleavage site for thrombin."</p> <p>Authors: Friedman B,Whitney MA,Savariar EN,Caneda C,Steinbach P,Xiong Q,Hingorani DV,Crisp J,Adams SR,Kenner M,Lippert CN,Nguyen QT,Guma M,Tsien RY,Corr M</p>	<p>Year</p> <p>2018</p> <p>Species</p> <p>Mouse</p>
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Immunocytochemistry (6)

<p>Stem cells (Dayton, Ohio)</p> <p><b>Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 11-1171-82) 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</p> <p>2021</p>
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Flow (85)

Misc (1)

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