CD117 (c-Kit) Monoclonal Antibody (2B8), FITC, 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), 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_465186

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.

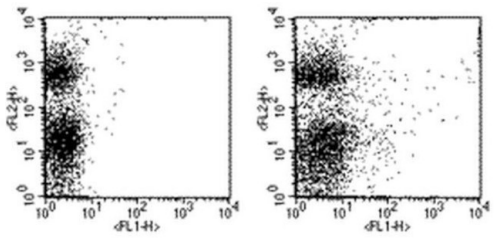
Applications Reported: The 2B8 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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 (11-1171-82) 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.

View more figures on thermofisher.com

100 References

Western Blot (1)

Circulation research

Year
2014

Abi3bp regulates cardiac progenitor cell proliferation and differentiation.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 11-1171-82) in Flow Cytometry"

Authors: Hodgkinson CP,Gomez JA,Payne AJ,Zhang L,Wang X,Dal-Pra S,Pratt RE,Dzau VJ

Immunohistochemistry (7)

Hypertension (Dallas, Tex. : 1979)

Year
2020

Species
Mouse

Dilution
1:50

Reduced Nhe1 (Na^+-H^+ Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)-Induced Abdominal Aortic Aneurysms.

"11-1171-82 was used in Immunohistochemistry to establish a direct role of Nhe1 in AAA pathogenesis."

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

Arthritis & rheumatology (Hoboken, N.J.)

Year
2018

Species
Mouse

Detection of Subclinical Arthritis in Mice by a Thrombin Receptor-Derived Imaging Agent.

"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."

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

View more IHC references on thermofisher.com

Immunocytochemistry (6)

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 # 11-1171-82) 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

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More applications with references on thermofisher.com

Flow (85) **Misc (1)**