

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

Product Details	
Size	100 µg
Species	Mouse, Pig
Published Species	Artificial Control, Fish, Mouse
Expression System	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_465186

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	60 Publications
Immunocytochemistry (ICC)	-	3 Publications
Immunofluorescence (IF)	-	8 Publications
Immunohistochemistry (IHC)	-	2 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.

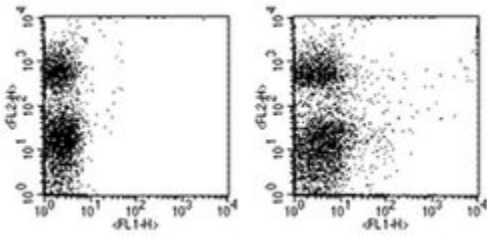
Applications Reported: The 2B8 antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ 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](http://thermofisher.com)

Flow Cytometry (60)

Frontiers in immunology

Positive and Negative Regulatory Roles of C-Terminal Src Kinase (CSK) in FcRI-Mediated Mast Cell Activation, Independent of the Transmembrane Adaptor PAG/CSK-Binding Protein.

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

Authors: Potuckova L, Draberova L, Halova I, Paulenda T, Draber P

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature communications

Dynamic changes in epithelial cell morphology control thymic organ size during atrophy and regeneration.

"11-1171 was used in Flow cytometry/Cell sorting to show that accelerated thymic atrophy reflects contraction of complex cell projections unique to cortical epithelial cells, while regeneration requires their regrowth."

Authors: Venables T, Griffith AV, DeAraujo A, Petrie HT

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunofluorescence (8)

Arthritis and rheumatology (Hoboken, N.J.)

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

Species
Mouse

Dilution
Not Cited

Year
2018

Scientific reports

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

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

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

Species
Mouse

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

IHC (2)

ICC (3)

Misc (1)

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