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.

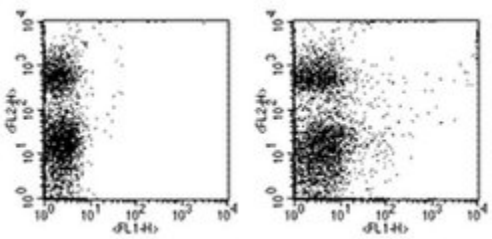
Applications Reported: The 2B8 antibody has been reported for use in flow cytometric analysis.

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 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

74 References

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

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More applications with references on thermofisher.com

IHC (2) **ICC (3)** **Misc (1)**