



CD117 (c-Kit) Monoclonal Antibody (2B8), Super Bright™ 436, 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), Super Bright™ 436, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2B8
Conjugate	Super Bright [™] 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637141

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 μg/test	60 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 0.06 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.

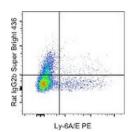
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

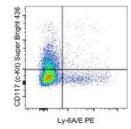
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD117 (c-Kit) Monoclonal Antibody (2B8), Super Bright™ 436, eBioscience™





CD117 (c-Kit) Antibody (62-1171-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Mouse Ly-6A/E (Sca-1) PE (Product # 12-5981-82) and 0.03 µg of Rat IgG2b K Isotype Control Super Bright 436 (Product # 62-4031-82) (left) or 0.03 µg of Anti-Mouse CD117 (c-Kit) Super Bright 436 (right). Total viable cells were used for analysis.

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□ 68 References

Immunohistochemistry (4)

Nature communications

Notch signal strength controls cell fate in the haemogenic endothelium.

Year 2015

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 62-1171-82) in Immunofluorescence"

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

Nature

Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 62-1171-82) in Flow Cytometry" Authors: Acar M,Kocherlakota KS,Murphy MM,Peyer JG,Oguro H,Inra CN,Jaiyeola C,Zhao Z,Luby-Phelps K,Morrison Year 2015

View more IHC references on thermofisher on

Immunocytochemistry (4)

Stem cells (Dayton, Ohio)

Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 62-1171-82) 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

Year 2021

Scientific reports

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

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 62-1171-82) in Immunofluorescence" Authors: Kasaai B, Caolo V, Peacock HM, Lehoux S, Gomez-Perdiguero E, Luttun A, Jones EA

Year 2017

View more ICC/IF references on thermofisher.cn

More applications with references on thermofisher.cn

Flow (60)

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