

CD117 (c-Kit) Monoclonal Antibody (2B8), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Pig
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2662379

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	19 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.

The 2B8 monoclonal antibody crossreacts with pig.

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 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. 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.

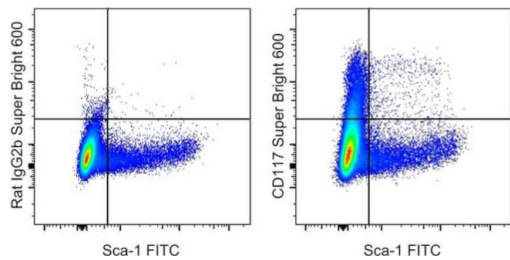
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 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™ 600, eBioscience™



CD117 (c-Kit) Antibody (63-1171-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Mouse Ly-6A/E (Sca-1) FITC (Product # 11-5981-82) and 0.03 μ g of Rat IgG2b K Isotype Control Super Bright 600 (Product # 63-4031-82) (left) or 0.03 μ g of Anti-Mouse CD117 (c-Kit) Super Bright 600 (right). Total viable cells were used for analysis.

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Immunocytochemistry (1)

<p>Stem cells (Dayton, Ohio)</p> <p>Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 63-1171-82) 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,Menci S,Kleinschnitz C,Ergün S,Kuerten S</p>	<p>Year 2021</p>
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Flow Cytometry (19)

<p>Frontiers in pain research (Lausanne, Switzerland)</p> <p>mMCP7, a Mouse Ortholog of Tryptase, Mediates Pelvic Tactile Allodynia in a Model of Chronic Pelvic Pain.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 63-1171-82) in Flow Cytometry"</p> <p>Authors: Pattabiraman G,Liu Z,Paul M,Schaeffer AJ,Thumbikat P</p>	<p>Year 2023</p>
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<p>Scientific reports</p> <p>Gastruloids as in vitro models of embryonic blood development with spatial and temporal resolution.</p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 63-1171-82) in Flow Cytometry"</p> <p>Authors: Rossi G,Giger S,Hübscher T,Lutolf MP</p>	<p>Year 2022</p>
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