

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

Product Details	
Size	200 µg
Species Reactivity	Mouse, Pig
Published Species	Hamster, Fish, Mouse, Human, Guinea pig
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 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_465814

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	106 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.

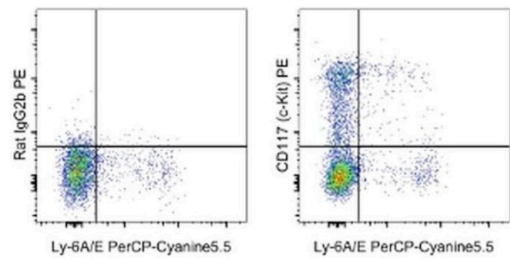
**Applications Reported:** The 2B8 antibody has been reported for use in flow cytometric analysis.

**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 0.125 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD117 (c-Kit) Antibody (12-1171-83) in Flow**  
Staining of C57Bl/6 bone marrow cells with Mouse Hematopoietic Lineage eFluor® 450 Cockatill (Product # 88-7772-72), Anti-Mouse Ly-6A/E (Sca-1) PerCP-Cyanine5-5 (Product # 45-5981-82) and 0.06 µg of Rat IgG2b K Isotype Control PE (Product # 12-4031-82) (left) or 0.06 µg of Anti-Mouse CD117 (c-Kit) PE (right). Lineage negative/low, viable cells, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866-14) were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

107 References

Immunohistochemistry (Frozen) (1)

<b>Molecular immunology</b>	<b>Year</b> 2011
<b>Contribution of IL-13 to early exocrinopathy in Id3-/- mice.</b>	<b>Species</b> Mouse
"12-1171 was used in Immunofluorescence to examine the role of cytokines produced by T cells in the systemic regulation of salivary gland function."	
Authors: Mahlios J,Zhuang Y	

Flow Cytometry (106)

<b>Frontiers in pain research (Lausanne, Switzerland)</b>	<b>Year</b> 2023
<b>mMCP7, a Mouse Ortholog of Tryptase, Mediates Pelvic Tactile Allodynia in a Model of Chronic Pelvic Pain.</b>	
"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 12-1171-82) in Flow Cytometry"	
Authors: Pattabiraman G,Liu Z,Paul M,Schaeffer AJ,Thumbikat P	

<b>Scientific reports</b>	<b>Year</b> 2022
<b>Gastruloids as in vitro models of embryonic blood development with spatial and temporal resolution.</b>	
"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 12-1171-82) in Flow Cytometry"	
Authors: Rossi G,Giger S,Hübscher T,Lutolf MP	

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

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