

# CD117 (c-Kit) Monoclonal Antibody (2B8), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466569

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.25 µg/test	73 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

## Product Specific Information

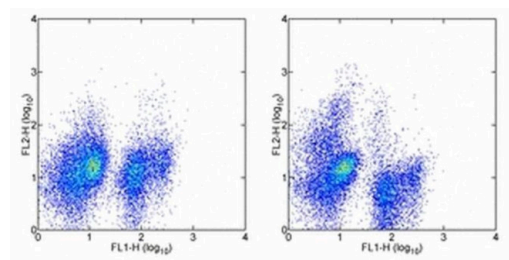
**Description:** The 2B8 monoclonal antibody reacts with mouse CD117, also known as c-Kit receptor, Steel factor receptor, and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145-kDa molecule is expressed by a majority of hematopoietic progenitor cells characterized in 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 0.25 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.

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

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



**CD117 (c-Kit) Antibody (13-1171-82) in Flow**  
Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 µg of Rat IgG2b K Isotype Control Biotin (Product # 13-4031-82) (left) or 0.125 µg of Anti-Mouse CD117 (c-Kit) Biotin (Product # 13-1171-82) (right) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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86 References

Western Blot (1)

<p>Circulation research</p> <p><b>Abi3bp regulates cardiac progenitor cell proliferation and differentiation.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 13-1171-82) in Flow Cytometry"</p> <p>Authors: Hodgkinson CP,Gomez JA,Payne AJ,Zhang L,Wang X,Dal-Pra S,Pratt RE,Dzau VJ</p>	<p>Year</p> <p>2014</p>
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Immunohistochemistry (4)

<p>Nature communications</p> <p><b>Notch signal strength controls cell fate in the haemogenic endothelium.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 13-1171-82) in Immunofluorescence"</p> <p>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</p>	<p>Year</p> <p>2015</p>
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<p>Nature</p> <p><b>Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 13-1171-82) in Flow Cytometry"</p> <p>Authors: Acar M,Kocherlakota KS,Murphy MM,Peyer JG,Oguro H,Inra CN,Jaiyeola C,Zhao Z,Luby-Phelps K,Morrison SJ</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Mouse</p>
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Immunocytochemistry (6)

<p>Stem cells (Dayton, Ohio)</p> <p><b>Bone marrow-derived myeloid progenitors in the leptomeninges of adult mice.</b></p> <p>"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 13-1171-82) 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, Mencil S,Kleinschnitz C,Ergün S,Kuerten S</p>	<p>Year</p> <p>2021</p>
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More applications with references on thermofisher.com

- Flow (73)
- Misc (2)

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