

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

Product Details

Size	100 µg
Species Reactivity	Mouse, Pig
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2B8
Conjugate	APC
Excitation/Emission Max	651/660 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_469430

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	157 Publications
Functional Assay (FN)	-	1 Publication
Affinity Purification (AP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	5 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.

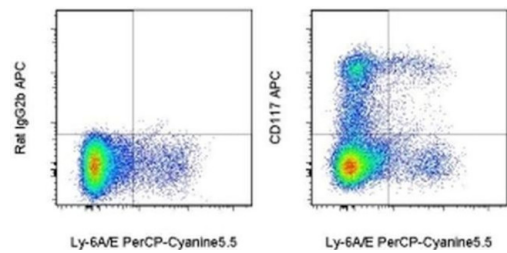
Applications Reported: The 2B8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD117 (c-Kit) Antibody (17-1171-82) in Flow
Staining of C57Bl/6 bone marrow cells with Mouse Hematopoietic Lineage eFluor® 450 Cocktail (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 APC (Product # 17-4031-82) (left) or 0.06 µg of Anti-Mouse CD117 (c-Kit) APC (right). Lineage negative/low, viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

Immunohistochemistry (2)

<p>The EMBO journal</p> <p>Transcriptome-based profiling of yolk sac-derived macrophages reveals a role for Irf8 in macrophage maturation.</p> <p>"17-1171 was used in Immunohistochemistry-Immunofluorescence to study the cellular and molecular mechanisms which govern the origin and developmental pathways of tissue macrophages."</p> <p>Authors: Hagemeyer N,Kierdorf K,Frenzel K,Xue J,Ringelhan M,Abdullah Z,Godin I,Wieghofer P,Costa Jordão MJ,Ulas T,Yorgancioglu G,Rosenbauer F,Knolle PA,Heikenwalder M,Schultze JL,Prinz M</p>	<p>Year 2016</p> <p>Species Mouse</p>
<p>Circulation</p> <p>Critical role of mast cell chymase in mouse abdominal aortic aneurysm formation.</p> <p>"17-1171 was used in Immunohistochemistry to study the contribution of mast cell chymase to the pathogenesis of human abdominal aortic aneurysm."</p> <p>Authors: Sun J,Zhang J,Lindholt JS,Sukhova GK,Liu J,He A,Abrink M,Pejler G,Stevens RL,Thompson RW,Ennis TL,Gurish MF,Libby P,Shi GP</p>	<p>Year 2009</p> <p>Species Mouse</p>

Flow Cytometry (157)

<p>Biomedical reports</p> <p>Immunostimulatory effects of a subcritical water extract of <i>Ganoderma</i>.</p> <p>"17-1171-82 was used in Flow cytometry/Cell sorting to demonstrate that Ganoderma (SWEG) increased hematopoietic precursor cells, immature B cells, and NK cells in the bone marrow, and T cells in the thymus."</p> <p>Authors: Hattori K,Takagi H,Ogata Y,Yamada T,Horiba H,Fukata K,Sakaida T,Yashiro Y,Hasegawa S,Tanaka H</p>	<p>Year 2023</p> <p>Species Mouse</p>
<p>Frontiers in immunology</p> <p>The parasitic worm product ES-62 protects the osteoimmunology axis in a mouse model of obesity-accelerated ageing.</p> <p>"17-1171-82 was used in Flow cytometry/Cell sorting to report the ability of small drug-like molecule analogues of ES-62 to mimic some of its key actions, particularly in strongly protecting trabecular bone structure, highlighting the translational potential of these studies."</p> <p>Authors: Harnett MM,Doonan J,Lumb FE,Crowe J,Damink RO,Buitrago G,Duncombe-Moore J,Wilkinson DI,Suckling CJ,Selman C,Harnett W</p>	<p>Year 2022</p> <p>Species Mouse</p>

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

More applications with references on thermofisher.com

- FN (1)
- AP (1)
- Misc (5)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.