



### CD117 (c-Kit) Monoclonal Antibody (2B8), PE-Cyanine5, eBioscience™

<b>Product Details</b>	
Size	100 μg
Species Reactivity	Mouse, Pig
Published Species	Fish, Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine5, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2B8
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 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_468787

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 μg/test	72 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.

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

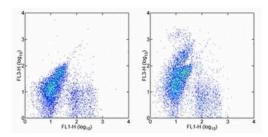
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 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-Cyanine5, eBioscience™



#### CD117 (c-Kit) Antibody (15-1171-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.06 µg of Rat IgG2b Isotype Control PE-Cyanine5 (Product # 15-4031-82) (left) or 0.06 µg of Anti-Mouse CD117 (c-Kit) PE-Cyanine5 (right). Total viable cells were used for analysis.

#### View more figures on thermofisher.com

#### **□ 72 References**

#### Flow Cytometry (72)

Frontiers in pain research (Lausanne, Switzerland)

# mMCP7, a Mouse Ortholog of Tryptase, Mediates Pelvic Tactile Allodynia in a Model of Chronic Pelvic Pain.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 15-1171-82) in Flow Cytometry" Authors: Pattabiraman G,Liu Z,Paul M,Schaeffer AJ,Thumbikat P

**Year** 2023

#### Scientific reports

# Gastruloids as in vitro models of embryonic blood development with spatial and temporal resolution.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 15-1171-82) in Flow Cytometry" Authors: Rossi G,Giger S,Hübscher T,Lutolf MP

**Year** 2022

Species Human

**Dilution** 1:640

View more Flow references on thermofisher.com

#### More applications with references on thermofisher.com

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 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 WARRANTES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULA PURPOSE, OR NON INFRINGEMENT.

BUYER'S EXCLUSIVE EMEMBEY FOR NON-CORNONNOR PRODUCTS DURING THE WARRANTEP FOR DOLLAGE OR REFUNDE FOR THE NON-CONFORMING PRODUCTS, AT SELLER'S SOLE OPTION. THERE IS NO BELIGATION TO REPLAIR, REPLACE OR REFUNDE FOR THE NON-CONFORMING PRODUCTS, AT SELLER'S SOLE OPTION. THERE IS NO BELIGATION TO REPLAIR, REPLACE OR REFUNDE FOR THE NON-CONFORMING PRODUCTS, AT SELLER'S SOLE OPTION. THERE IS NO BELIGATION TO REPLAIR, REPLACE OR REFUNDE FOR THE NON-CONFORMING PRODUCTS, AT SELLER'S SOLE OPTION. THERE IS NO BELIGATION TO REPLAIR, REPLACE OR REFUNDE FOR THE NON-CONFORMING 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 witho