

Product Information

Contents: Phycoerythrin (PE) anti-mouse CD117 (c-Kit, cKit)

Catalog Number: 12-1171

Sizes: 50 ug, 100 ug, 200 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

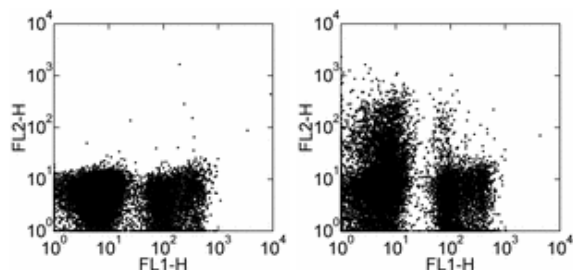
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 2B8

Isotype: Rat IgG2b, κ



Staining of C57Bl/6 bone marrow cells with FITC anti-mo/hu B220 (RA3-6B2) (cat. 11-0452) and .06 µg of PE Rat IgG2b Isotype Control (cat. 12-4031) (left) or .125 µg of PE 2B8 (right). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
10-1171	APC-Cy7 anti-mouse CD117 (c-Kit, cKit)	633	760	FC
11-1171	FITC anti-mouse CD117 (c-Kit, cKit)	488	518	FC
12-1171	PE anti-mouse CD117 (c-Kit, cKit)	488	575	FC
13-1171	Biotin anti-mouse CD117 (c-Kit, cKit)	N/A	N/A	FC
14-1171	Affinity Purified anti-mouse CD117 (c-Kit, cKit)	N/A	N/A	FC IP
15-1171	PE-Cy5 anti-mouse CD117 (c-Kit, cKit)	488	670	FC
17-1171	APC anti-mouse CD117 (c-Kit, cKit)	633	660	FC
19-1171	Cy5 anti-mouse CD117 (c-Kit, cKit)	633	670	FC
25-1171	Phycoerythrin-Cy7 (PE-Cy7) anti-mouse CD117 (c-Kit, cKit)	488	760	FC
30-1171	DISCONTINUED - Allophycocyanin-Cy5.5 (APC-Cy5.5) anti-mouse CD117 (c-Kit, cKit)	633	690	FC
35-1171	Coming Soon! - Phycoerythrin-Cy5.5 (PE-Cy5.5) anti-mouse CD117 (c-Kit, cKit)	488	690	FC

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^{lo}) 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.

Usage

For research use only, not for diagnostic or therapeutic use. 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 cell suspensions. This can be used at less than or equal to 0.125 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 10-1171	APC-Cy7 anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 11-1171	FITC anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 13-1171	Biotin anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 14-1171	Affinity Purified anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 15-1171	PE-Cy5 anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 17-1171	APC anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 19-1171	Cy5 anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 25-1171	Phycoerythrin-Cy7 (PE-Cy7) anti-mouse CD117 (c-Kit, cKit) (clone 2B8)
Cat. 12-4031	Phycoerythrin (PE) Rat IgG2b Isotype Control (clone eB149/10H5)

References

Ikuta K, Weissman IL. 1992. Evidence that hematopoietic stem cells express mouse c-kit but do not depend on steel factor for their generation. *Proc Natl Acad Sci USA*. 89(4): 1502-6.

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