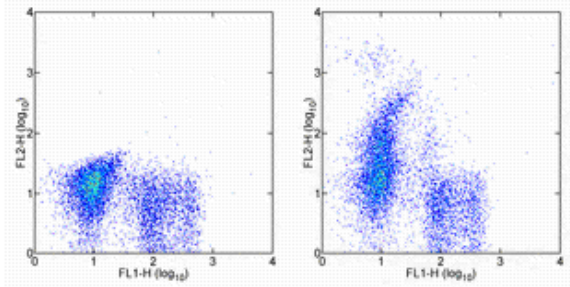


Anti-Mouse CD117 (c-Kit) PE

Catalog Number: 12-1171

Also Known As: cKit, Steel Factor Receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.06 ug of Rat IgG2b kK Isotype Control PE (cat. 12-4031) (left) or 0.06 ug of Anti-Mouse CD117 (c-Kit) PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD117 (c-Kit) PE


REF **Catalog Number:** 12-1171

Clone: 2B8

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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.

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 cell suspensions. 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.

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.

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

12-4031 Rat IgG2b K Isotype Control PE

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