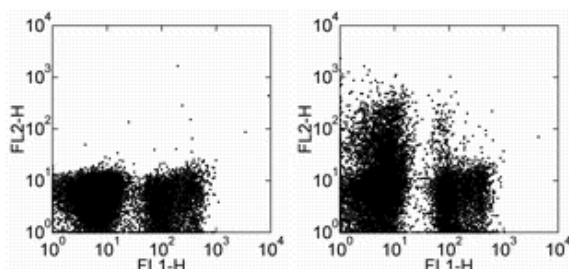


## Anti-Mouse CD117 (c-Kit) Purified

**Catalog Number:** 14-1171

**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 kappa Isotype Control PE (cat. 12-4031) (left) or 0.125 ug of Anti-Mouse CD117 (c-Kit) PE (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD117 (c-Kit) Purified

**REF** **Catalog Number:** 14-1171

**Clone:** 2B8

**Concentration:** 0.5 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.



**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<sup>lo</sup>) 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, and immunoprecipitation.

### 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 0.5 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.

### 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)

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4031 Rat IgG2b K Isotype Control PE

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4031 Rat IgG2b K Isotype Control Purified

17-4317 Streptavidin APC