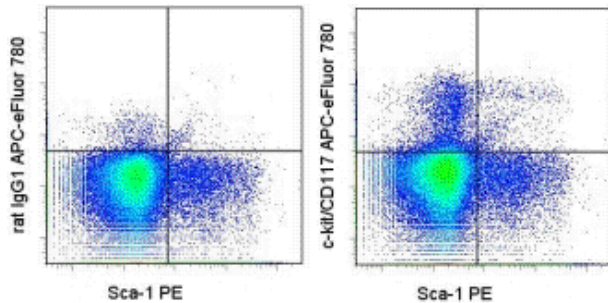


## Anti-Mouse CD117 (c-Kit) APC-eFluor® 780

Catalog Number: 47-1172

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-Mouse Ly-6A/E (Sca-1) PE (cat. 12-5981) and 0.06 ug of Rat IgG2b kappa Isotype Control APC-eFluor® 780 (cat. 47-4031) (left) or 0.06 ug of Anti-Mouse CD117 (c-Kit) APC-eFluor® 780 (right). Cells in the Lineage(low) gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD117 (c-Kit) APC-eFluor® 780

**REF** **Catalog Number:** 47-1172

**Clone:** ACK2

**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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Caution, contains Azide**

### Description

The ACK2 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. ACK2 has been reported to be a blocking antibody.

### Applications Reported

This ACK2 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This ACK2 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.

**APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.**

**Light sensitivity: Tandem 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 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyso 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.**

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#### **Related Products**

12-5981 Anti-Mouse Ly-6A/E (Sca-1) PE (D7)

47-1171 Anti-Mouse CD117 (c-Kit) APC-eFluor® 780 (2B8)

47-4031 Rat IgG2b K Isotype Control APC-eFluor® 780

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