

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD117/c-kit in direct ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 180627
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD117/c-kit Gln25-Thr519 (Ala207Glu) Accession # P05532
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Lineage depleted mouse bone marrow cells

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

SCF R is also known as the c-kit proto-oncogene protein and as CD117. Together with its ligand, stem cell factor (also called c-kit ligand or mast cell growth factor), SCF R plays an essential role in gametogenesis, melanogenesis, and hematopoiesis. SCF R is expressed in hematopoietic progenitor cells, normal B and T lymphocyte progenitors, mast cells, germ cells, melanocytes, neurons, glial cells, placenta, kidney, lung, and gut. In addition, SCF R expression has also been reported in several human tumor cell lines (1,2).

#### References:

- Broudy, V. (1997) *Blood* **90**:1345.
- Vliagoftis, H. *et al.* (1997) *J. Allergy Clin. Immunol.* **100**:435.

#### PRODUCT SPECIFIC NOTICES

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