

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CD117/c-kit in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 180627
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD117/c-kit Gln25-Thr519 (Ala207Glu) Accession # P05532
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	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.

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

PREPARATION AND STORAGE

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

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:

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

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