

**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>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

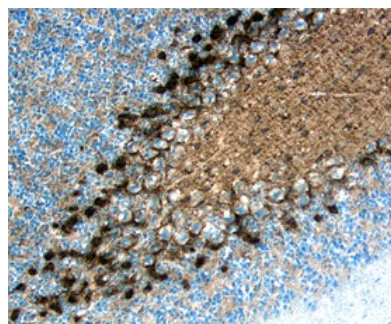
**APPLICATIONS**

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>Western Blot</b>	1 µg/mL	Recombinant Mouse CD117/c-kit under non-reducing conditions only
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	Lineage depleted mouse bone marrow cells
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

**Immunohistochemistry**



**CD117/c-kit in Mouse Brain.**  
CD117/c-kit was detected in perfusion fixed frozen sections of mouse brain (cerebellum) using 10 µg/mL Rat Anti-Mouse CD117/c-kit Monoclonal Antibody (Catalog # MAB1356) overnight at 4 °C. Tissue was stained with the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific labeling was localized to Bergmann glial cells located around Purkinje cells. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</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:**

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