



**Category:** Monoclonal Antibodies      **Cat. #** mab-SF-C028      **Product Name:** mouse c-KIT

**Description:**

Monoclonal rat anti-mouse c-KIT. CD117(c-KIT) is a 145 kD immunoglobulin superfamily member, also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells. ACK2 has been reported to block c-Kit function.

**Immunogen:**

Murine IL-3 dependent mast cells

**Application:**

Flow cytometry, IHC

**Species Reactivity:**

Mouse. Others not tested.

**Presentation:**

50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

**Aliquoting Instructions:**

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

**Specificity:**

This antibody specifically recognizes mouse CD117, known as c-kit receptor, stem cell factor receptor and steel factor receptor.

**Storage:**

Store at 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2 mg

**Clone:** ACK-2

**Isotype:** IgG2b, kappa

**Host:** Rat

**Form:** Purified

**Concentration:** 0.5 mg/ml

**Units on Hand:** YES

**References:**

1. Andre, C., et al., Genomics 39 (2): 216–226, 1997.
2. Yarden, Y., et al., EMBO J. 6 (11): 3341–3351, 1987.
3. Leong, K. G., Nature 456 (7223): 804–808, 2008.
4. Sato D, et al. 1996. Am J Physiol. 271: G762-71.
5. Yoshida H, et al. 1996. Development. 122: 1207-14.
6. Yoshinaga K, et al. 1991. Development. 113:689-99.

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