

Rat anti-Mouse CD117/c-Kit Monoclonal Antibody

Rat Anti-Mouse CD117/c-kit-FITC

CATALOG # AAA78687	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD117/c-Kit; Monoclonal Antibody; Rat Anti-Mouse CD117/c-kit-FITC; c-Kit; mast cell growth factor; stem cell factor; steel factor; SCF; anti-CD117/c-Kit antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat (Wistar) IgG _{2b} ?
Clone Number	2B8
Specificity	Mouse CD117; Mr 150 kDa
Form/Format	The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN ₃ .
Concentration	0.05 mg/ml (varies by lot)
Applicable Applications for anti-CD117/c-Kit antibody	FCM/FACS (Flow Cytometry)
Immunogen	Mouse IL-3-dependent bone marrow mast cells
Preparation and Storage	Store at 2-8°C.

ADDITIONAL INFORMATION

Related Product Information for anti-CD117/c-Kit antibody	Description: The CD117 (c-Kit) antigen is the cell-surface receptor for stem cell factor (SCF). Together these molecules constitute a ligand/receptor pair which functions to maintain normal hematopoiesis in the adult. Signaling through SCF/c-Kit has an important role in stimulating myeloid and erythroid production of primitive hematopoietic progenitor cells. A variety of cytokines act synergistically with SCF to stimulate proliferation and differentiation of bone marrow progenitor cells. For example, SCF plus IL-7 can stimulate the combined myeloid and B cell differentiation of uncommitted hematopoietic progenitor cells. SCF/c-Kit also participates in erythropoiesis in both the bone marrow and spleen. Loss-of-function mutations for SCF/c-Kit lead to a variety of pleiotropic developmental defects while gain-of-function mutations can lead to constitutive activation of the kit receptor and links to cancer. Examples of the former are mast cell deficiency and severe macrocytic anemia while the latter mutation has been identified in mastocytomas.
References	1. Broudy, V.C., et al. 1996. Blood 88:75. 2. Veiby, O.P., S. D. Lyman and S. E. Jacobsen. 1996. Blood 87:3117. 3. Sudo, T., et al. 1995. Oncogene 11:2469. 4. Yoshida, H., et al. 1996. Development 122: 1207.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.