

Mouse anti-Human CD117 Monoclonal Antibody | anti-CD117 antibody

Mouse Anti-Human CD117, FITC Conjugated mAb

CATALOG # AAA266773	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD117; Monoclonal Antibody; Mouse Anti-Human CD117; FITC Conjugated mAb; anti-CD117 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4A104D2
Form/Format	Phosphate-buffered solutions, pH 7.4, containing 0.09% sodium azide and 0.2% (w/v) BSA
Applicable Applications for anti-CD117 antibody	FCM/FACS (Flow Cytometry)
Experimental Methods	1. Take 100mul peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube; 2. Add 10mul labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light; 3. Add 2 ml1×RBC lysing buffer, incubate for 10 minutes away from light after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10×); 4. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 5. Add 2 ml PBS wash buffer to resuspend the cells, then1000 rpm centrifugation for 5 minutes, discard the supernatant; 6. Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4 degree C then measured). [PBS wash buffer: PBS +1% FBS +0.1% NaN₃] [Cell fixation: 2% formaldehyde solution]
Preparation and Storage	Store at 4°C. Do not freeze. Light Sensitive material.

ADDITIONAL INFORMATION

Related Product Information for anti-CD117 antibody	The 4A104D2 monoclonal antibody reacts with human CD117, also known as c-Kit, Steel factor receptor and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145 kDa molecule is expressed by hematopoietic progenitor cell subsets and mast cells. The interaction of c-Kit and Steel factor promotes proliferation and differentiation of hematopoietic progenitor cells and mast cell differentiation. CD117 is also expressed by melanocytes and plays a role in signaling and activation of these cells.
References	1.Blair A, Sutherland HJ. Primitive acute myeloid leukemia cells with long-term proliferative ability in vitro and in vivo lack surface expression of c-kit (CD117). Exp Hematol. 2000 Jun; 28(6):660-71. 2.Schlossman, S., L. Bloumsell, et al. eds. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York 1995. (4A104D2, FC).

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd117-antibody-clone-4a104d2-flow-cytometry-elisa/266773>