

Datasheet for ABIN638436

anti-KIT antibody (FITC)





Publications



Go to Product page

Overview

Quantity:	100 tests
Target:	KIT
Reactivity:	Human, Cow, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KIT antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	MOLM-1 megakaryocytic cells
Clone:	104D2
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 104D2 detects extracellular part of CD117 / c-Kit protooncogen.
Cross-Reactivity (Details):	Human, Non-Human Primates, Bovine
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target: KIT

Target Details

KIT proto-oncogene, receptor tyrosine kinase, CD117 / c-Kit (stem cell factor receptor) is a 145 kDa receptor tyrosine kinase that regulates cell proliferation, adhesion, chemotaxis, apoptosis and other cell processes. Mutations of CD117 / c-Kit can lead to growth and progression of tumours. After binding of its ligand, SCF (stem cell factor), CD117 / c-Kit is autophosphorylated on its intracellular domains and activated. CD117 is expressed on pluripotent hematopoietic progenitor cells, mast cells and various cancer cells, e.g. acute myeloid leukemia cells.,c-Kit, PBT, SCFR
3815
P10721
RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Sensory Perception of Sound, Stem Cell Maintenance, Production of Molecular Mediator of Immune Response, Regulation of long-term Neuronal Synaptic Plasticity
Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μ L reagent / 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
For Research Use only
No reconstitution is necessary.
Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Sodium azide
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Do not freeze. Avoid prolonged exposure to light.

Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

Stevenson, McGlynn, Hodge, McLinden, George, Davies, Shiels: "Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations." in: **Stem cells and development**, Vol. 18, Issue 10, pp. 1389-98, (2009) (PubMed).

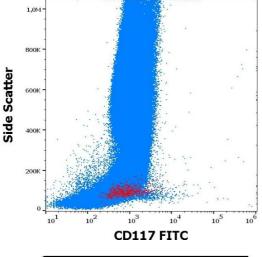
Nagano, Yamashita, Hamada, Ohneda, Kimura, Nakagawa, Shibuya, Yoshikawa, Ohneda: "Identification of functional endothelial progenitor cells suitable for the treatment of ischemic tissue using human umbilical cord blood." in: **Blood**, Vol. 110, Issue 1, pp. 151-60, (2007) (PubMed).

Wihlidal, Varga, Pfeilstöcker, Karlic: "Expression and functional significance of osteocalcin splicing in disease progression of hematological malignancies." in: **Leukemia research**, Vol. 30, Issue 10, pp. 1241-8, (2006) (PubMed).

Blair, Sutherland: "Primitive acute myeloid leukemia cells with long-term proliferative ability in vitro and in vivo lack surface expression of c-kit (CD117)." in: **Experimental hematology**, Vol. 28, Issue 6, pp. 660-71, (2000) (PubMed).

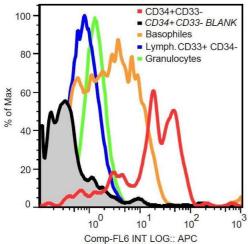
Yoshino, Ami, Terao, Tashiro, Honda: "Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (Macaca fascicularis) by using anti-human cross-reactive antibodies." in: **Experimental animals / Japanese Association for Laboratory Animal Science**, Vol. 49, Issue 2, pp. 97-110, (2000) (PubMed).

There are more publications referencing this product on: Product page



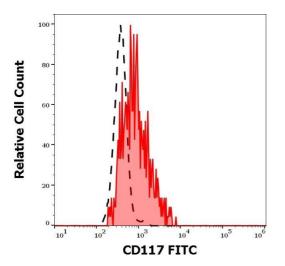
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-human CD117 (104D2) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD117 (104D2) purified.



Flow Cytometry

Image 3. Separation of human stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD117 (104D2) FITC antibody (20 μ L reagent / 100 μ L of peripheral whole blood).

Please check the product details page for more images. Overall 4 images are available for ABIN638436.