Datasheet for ABIN1027690

anti-KIT antibody (APC)

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Overview

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

Product Details

Purpose:	Anti-Hu CD117 APC
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 activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	KIT
Alternative Name:	CD117 (KIT Products)
Background:	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
Gene ID:	3815
UniProt:	P10721
Pathways:	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

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
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).

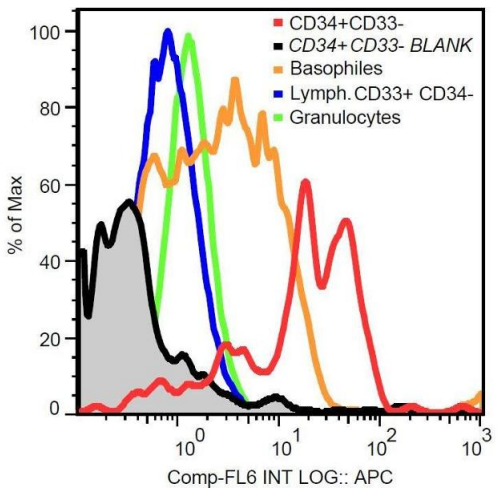
Wihlidal, Varga, Pfeilstöcker, Karlic: "Expression and functional significance of osteocalcin splicing in disease progression of hematological malignancies." in: **Leukemia research**, Vol. 30, Issue 10, pp. 1241-8, (2006) (PubMed).

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).

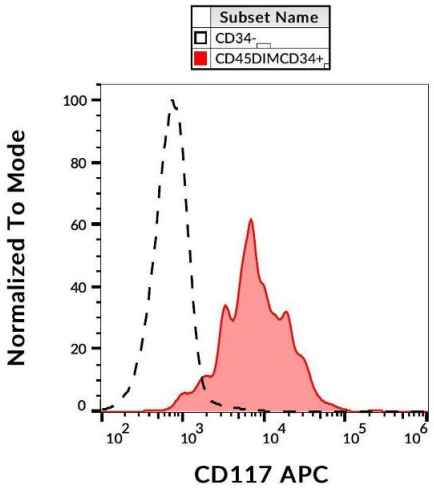
There are more publications referencing this product on: Product page

Images



Flow Cytometry

Image 1. Surface staining of human peripheral blood cells with anti-CD117 (104D2) purified.



Flow Cytometry

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