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Datasheet for ABIN94191
anti-CD56 antibody (APC)

2 Images

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Overview

Quantity:	100 tests
Target:	CD56 (NCAM1)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD56 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	KG-1 human acute myelogenous leukemia cell line
Clone:	MEM-188
Isotype:	IgG2a
Specificity:	The antibody MEM-188 reacts with an extracellular epitope on a 180 kDa isoform of CD56 (NCAM) expressed in leukocytes. It has been suggested that the antibody MEM-188 could react with rhesus monkey lymphocytes. Reactivity with other NCAM isoforms has not been tested.
Cross-Reactivity (Details):	Human, Non-Human Primates
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:	CD56 (NCAM1)
Alternative Name:	CD56 (NCAM1 Products)
Background:	Neural cell adhesion molecule 1,CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of immunoglobulin family serving as adhesive molecule which is ubiquitously expressed in nervous system, usually as 120 kDa, 140 kDa or 180 kDa isoform, and it is also found on T cells and NK cells. Polysialic modification results in reduction of CD56-mediated cell adhesion and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumours and ovarian granulosa cell tumours.,NCAM1, MSK39
Gene ID:	4684
UniProt:	P13591

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.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
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: Hovden, Karlsen, Jonsson, Aarstad, Appel: "Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses." in: **BMC immunology**, Vol. 12, pp. 2, (2011) ([PubMed](#)).

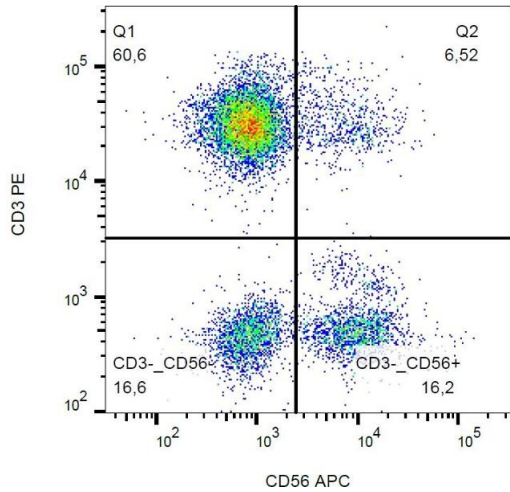
Benson, Grobarova, Richter, Fiserova: "Glycosylation regulates NK cell-mediated effector function through PI3K pathway." in: **International immunology**, Vol. 22, Issue 3, pp. 167-77, (2010) ([PubMed](#)).

Olsen, Tollefsen, Aagaard, Reitan, Bannantine, Andersen, Sollid, Lundin: "Isolation of Mycobacterium avium subspecies paratuberculosis reactive CD4 T cells from intestinal biopsies of Crohn's disease patients." in: **PLoS ONE**, Vol. 4, Issue 5, pp. e5641, (2009) ([PubMed](#)).

Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) ([PubMed](#)).

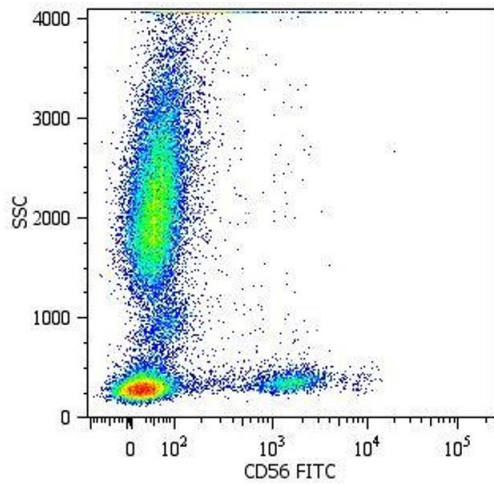
Yates, Rovis, Mitchell, Afzali, Tsang, Garin, Lechler, Lombardi, Garden: "The maintenance of human CD4+ CD25+ regulatory T cell function: IL-2, IL-4, IL-7 and IL-15 preserve optimal suppressive potency in vitro." in: **International immunology**, Vol. 19, Issue 6, pp. 785-99, (2007) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood lymphocytes with anti-CD56 (MEM-188) APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD56 (MEM-188) FITC.