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Datasheet for ABIN93989

anti-CD16 antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD16
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD16 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Normal human peripheral blood granulocytes
Clone:	LNK16
Isotype:	IgG1
Specificity:	The antibody LNK16 reacts with an extracellular epitope of CD16, a low affinity receptor for aggregated IgG (FcgammaRIII antigen). CD16 exists in two different isoforms: CD16a (FcgammaRIIIA, 50-65 kDa, expressed on NK-cells, monocytes and macrophages) and CD16b (FcgammaRIIIB, 48 kDa, mainly expressed on neutrophils).
Cross-Reactivity (Details):	Human, Non-Human Primates
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:	CD16
Alternative Name:	CD16 (CD16 Products)
Background:	CD16 (FcgammaRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcgammaRIII is expressed in two forms –, FcgammaRIII-A and -B. FcgammaRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcepsilonRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcgammaRIII-A is associated, moreover, with FcepsilonRI-beta subunit. Besides IgG, FcgammaRIII-A can be triggered also by oligomeric IgE. FcgammaRIII-B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.,FcgammaRIII, IGFR3, FCRIII
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	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.
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:

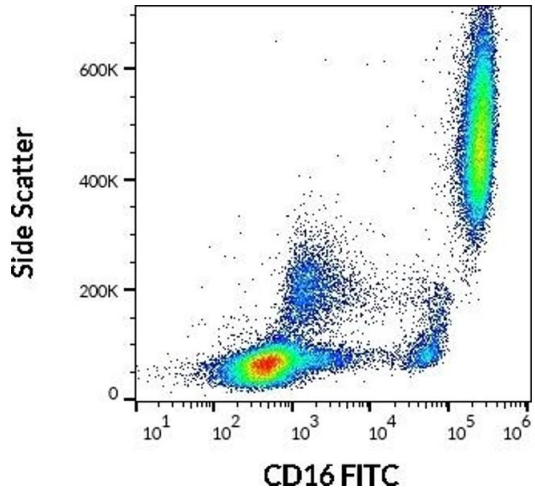
Hovden, Karlsen, Jonsson, Aarstad, Appel: "Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses." in: **BMC immunology**, Vol. 12, pp. 2, (2011) (PubMed).

Boyle: "Human macrophages kill human mesangial cells by Fas-L-induced apoptosis when triggered by antibody via CD16." in: **Clinical and experimental immunology**, Vol. 137, Issue 3, pp. 529-37, (2004) (PubMed).

Mathison, Befus, Davison, Woodman: "Modulation of neutrophil function by the tripeptide feG." in: **BMC immunology**, Vol. 4, pp. 3, (2003) (PubMed).

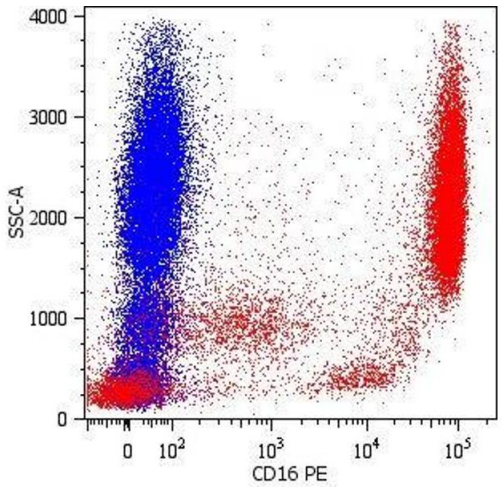
Tamm, Schmidt: "The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 4, pp. 1576-81, (1996) (PubMed).

Images



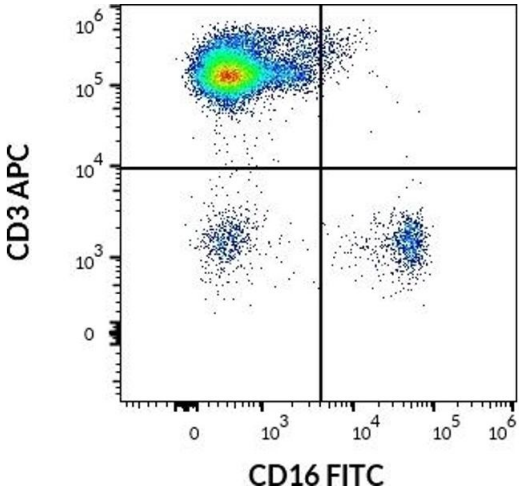
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (LNK16) FITC (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD16 (LNK16) PE.



Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes using anti-human CD16 (LNK16) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Please check the product details page for more images. Overall 4 images are available for ABIN93989.