Datasheet for ABIN93988

anti-CD16 antibody

4 Images | 4 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	CD16
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD16 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: Recommended dilution: 3-12 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 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.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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).

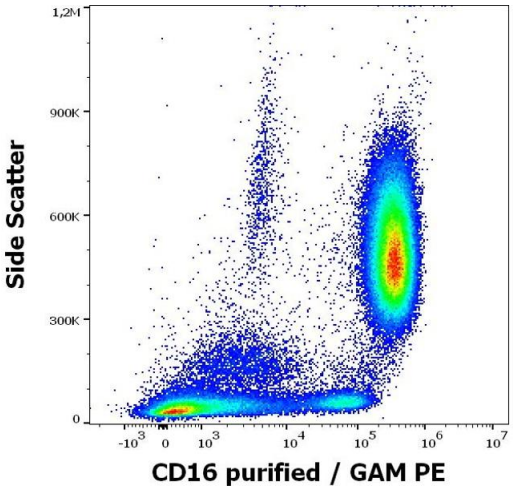
Publications

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).

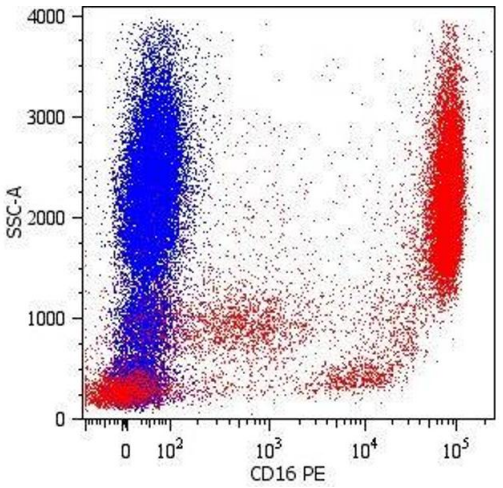
Tamm, Schmidt: "The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 4, pp. 1576-81, (1996) (PubMed).

Images



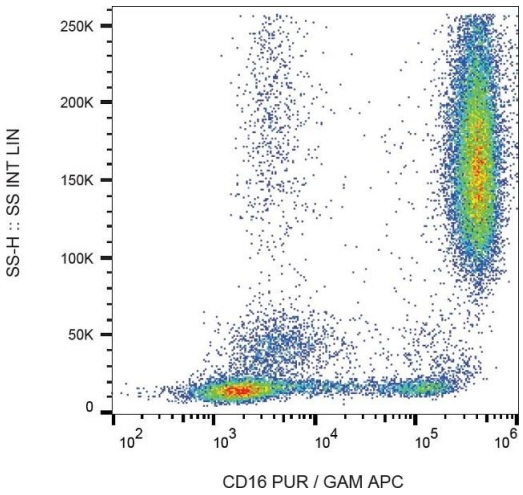
Flow Cytometry

Image 1. Anti-human CD16 purified antibody (clone LNK16) works in flow cytometry application. Analysis of the antibody staining profile was performed on blood leukocytes isolated from buffy coats. HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022,13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes. Mouse monoclonal anti-human CD16 purified antibody (clone LNK16) was used in concentration 2 µg/mL in stained blood sample (2 x 106 cells).



Flow Cytometry

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



Flow Cytometry

Image 3. Flow cytometry (surface staining) of human peripheral blood cells with anti-CD16 (LNK16) purified / GAM-APC.

Please check the product details page for more images. Overall 4 images are available for ABIN93988.