

ARG62744 anti-CD16 antibody [LNK16] (FITC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [LNK16] recognizes CD16
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone LNK16 reacts with 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). HLDA V; WS Code M MA069 HLDA V; WS Code NK NK50
Host	Mouse
Clonality	Monoclonal
Clone	LNK16
Isotype	IgG1
Target Name	CD16
Species	Human
Immunogen	Normal human peripheral blood granulocytes
Conjugation	FITC
Alternate Names	FCRIIIA; FcRIIIa; CD antigen CD16a; Fc-gamma RIII-alpha; FCR-10; FcR-10; FCRIII; FCG3; Low affinity immunoglobulin gamma Fc region receptor III-A; FCGRIII; CD16; Fc-gamma RIIIa; IgG Fc receptor III-2; IMD20; CD16A; IGFR3; CD16a antigen; FCGR3; FcRIII; Fc-gamma RIII

Application Instructions

Application table	<table border="1"> <thead> <tr> <th>Application</th> <th>Dilution</th> </tr> </thead> <tbody> <tr> <td>FACS</td> <td>20 µl / 10⁶ cells</td> </tr> </tbody> </table>	Application	Dilution	FACS	20 µl / 10 ⁶ cells
Application	Dilution				
FACS	20 µl / 10 ⁶ cells				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				

Properties

Form	Liquid
Purification Note	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.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

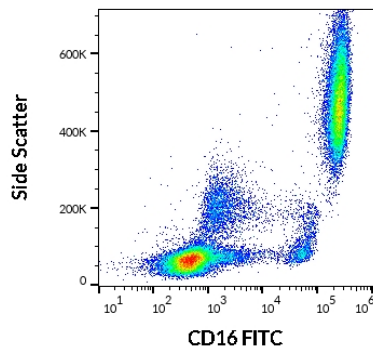
repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 2214 Human Swiss-port # P08637 Human
Gene Symbol	FCGR3A
Gene Full Name	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
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.
Function	Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. [UniProt]
Highlight	Related products: CD16 antibodies ; CD16 ELISA Kits ; CD16 Duos / Panels ; Anti-Mouse IgG secondary antibodies ; Related news: Tumor-Infiltrating Lymphocytes (TILs)
Research Area	Developmental Biology antibody; Immune System antibody; General Lymphocyte Marker Study antibody; Natural killer cells antibody
Calculated Mw	29 kDa
PTM	Glycosylated. Contains high mannose- and complex-type oligosaccharides. Glycosylation at Asn-180 is mandatory for high affinity binding to the Fc and for discrimination between fucosylated and afucosylated IgG glycoforms. The soluble form is produced by a proteolytic cleavage.

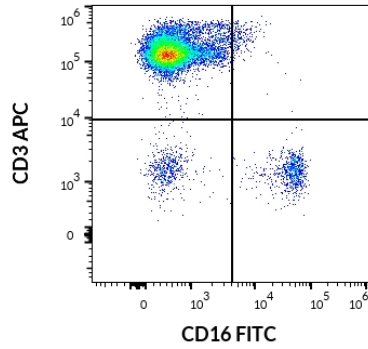
Images



ARG62744 anti-CD16 antibody [LNK16] (FITC) FACS image

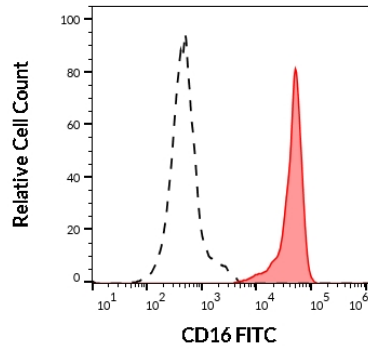
Flow Cytometry: Human peripheral whole blood stained with ARG62744 anti-CD16 antibody [LNK16] (FITC) (20 µl reagent / 100 µl of peripheral whole blood).

ARG62744 anti-CD16 antibody [LNK16] (FITC) FACS image



Flow Cytometry: Human Lymphocytes stained with ARG62744 anti-CD16 antibody [LNK16] (FITC) (20 μ l reagent / 100 μ l of peripheral whole blood) and [ARG54302](#) anti-CD3 epsilon antibody [UCHT1] (APC) (10 μ l reagent / 100 μ l of peripheral whole blood).

ARG62744 anti-CD16 antibody [LNK16] (FITC) FACS image



Flow Cytometry: Separation of Human CD3 negative CD16 positive Lymphocytes (red) from Human CD3 positive CD16 negative Lymphocytes (black-dashed). Human peripheral whole blood stained with ARG62744 anti-CD16 antibody [LNK16] (FITC) (20 μ l reagent / 100 μ l of peripheral whole blood).