ARG53774
anti-CD16 antibody [LNK16] (PE)

Summary

Product Description | PE-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
Antigen Species | Human
Immunogen | Normal human peripheral blood granulocytes
Conjugation | PE
Alternate Names | FCRIII; FcRllla; 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 RIIla; IgG Fc receptor III-2; IMD20; CD16A; IGFR3; CD16a antigen; FCGR3; FcRllI; Fc-gamma RIII

Application Instructions

Application table

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<th>Application</th>
<th>Dilution</th>
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<td>FACS</td>
<td>20 µl / 10^6 cells</td>
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Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Calculated Mw | 29 kDa

Properties

Form | Liquid
Purification Note | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography 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

Images

ARG53774 anti-CD16 antibody [LNK16] (PE) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG53774 anti-CD16 antibody [LNK16] (PE).