

30-1272-B: Anti-CD16 / FcgammaRIII Monoclonal Antibody (Clone:LNK16)-Biotin Conjugated

Clonality :	Monoclonal
Clone Name :	LNK16
Application :	IP,FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	Biotin
Gene :	FCGR3A
Gene ID :	2214
Uniprot ID :	P08637
Alternative Name :	FCGR3A,CD16A,FCG3,FCGR3,IGFR3
Isotype :	Mouse IgG1
Immunogen Information :	Normal human peripheral blood granulocytes

Description

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).

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.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Concentration: 1 mg/ml Content: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml.

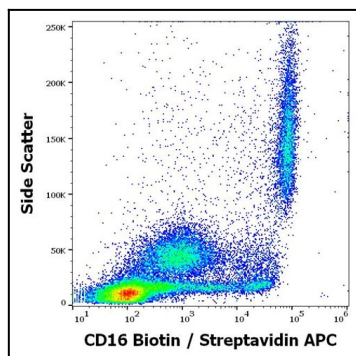


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (LNK16) Biotin antibody (concentration in sample 5 µg/ml, streptavidin APC).

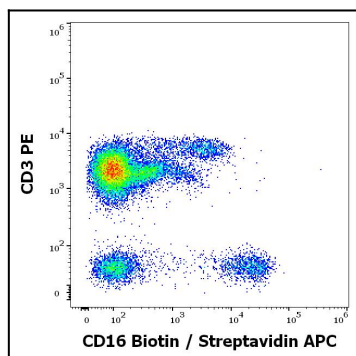


Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD16 (LNK16) Biotin antibody (concentration in sample 5 µg/ml, streptavidin APC) and anti-human CD3 (UCHT1) PE antibody (20 µl reagent / 100 µl of peripheral whole blood).

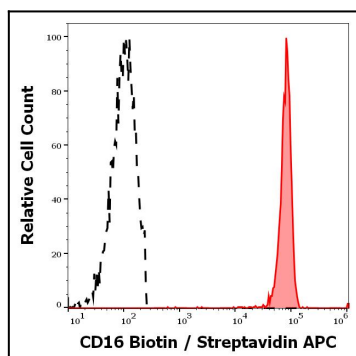


Figure 3: Separation of human neutrophil granulocytes (red-filled) from CD3 positive CD16 negative T cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD16 (LNK16) Biotin antibody (concentration in sample 5 µg/ml, streptavidin APC).