

CD16 (PN0296) Nb-FC recombinant antibody

CatalogNo: YA0486 **Recombinant** 

Key Features

Reactivity

- Human

Applications

- ELISA

Recommended Dilution Ratios

ELISA 1:5000-100000

Storage

Storage* -15°C to -25°C/1 year(Avoid freeze / thaw cycles)

Formulation Phosphate-buffered solution

Basic Information

Source Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

Purification Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell

Clone Number PN0296

Immunogen Information

Immunogen Purified recombinant Human CD16

Specificity This recombinant monoclonal antibody can detects endogenous levels of CD16 protein.

Target Information

Gene name	FCGR3A CD16A FCG3 FCGR3 IGFR3		
Protein Name	Low affinity immunoglobulin gamma Fc region receptor III-A (IgG Fc receptor III-A) (CD16-II) (CD16a antigen) (Fc-gamma RIII-alpha) (Fc-gamma RIII) (Fc-gamma RIIIa) (FcRIII) (FcRIIIa) (FcgammaRIIIA) (FcR-10) (IgG Fc receptor III-2) (CD antigen CD16a)		
	Organism	Gene ID	UniProt ID
	Human	2214;	P08637;
Cellular Localization	Cell membrane ; Single-pass type I membrane protein . Secreted . Exists also as a soluble receptor. .		
Tissue specificity	Expressed in natural killer cells (at protein level) (PubMed:2526846). Expressed in a subset of circulating monocytes (at protein level) (PubMed:2767158).		
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.,miscellaneous:Encoded by one of two nearly identical genes: FCGR3A (Shown here) and FCGR3B which are expressed in a tissue-specific manner. The Phe-203 in III-A determines the transmembrane domains whereas the Ser-203 in III-B determines the GPI-anchoring.,online information:FCGR3A mutation db,polymorphism:Isoform Val-157 shows a higher binding capacity of IgG1, IgG3 and IgG4 compared with isoform Phe-157. Alleles Leu-66 and Phe-157, and alleles His-66 / Arg-66 and Val-157 are in linkage disequilibrium.,PTM:Glycosylated. Contains high mannose- and complex-type oligosaccharides.,PTM:The soluble form is produced by a proteolytic cleavage.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,subcellular location:Exists also as a soluble receptor.,subunit:Exists as a hetero-oligomeric receptor complex with Fc epsilon receptor I gamma subunit and / or the CD3 zeta subunit. Interacts with INPP5D/SHIP1.,tissue specificity:Expressed on natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts.,		

Validation Data

Contact information

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