

CD59 (PN0221) Nb-FC recombinant antibody

CatalogNo: YA0566 **Recombinant** 

Key Features

Reactivity

- Human

Applications

- ELISA,FC

Recommended Dilution Ratios

ELISA 1:5000-100000

Flow Cyt 1-2µg/Test

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 PN0221

Immunogen Information

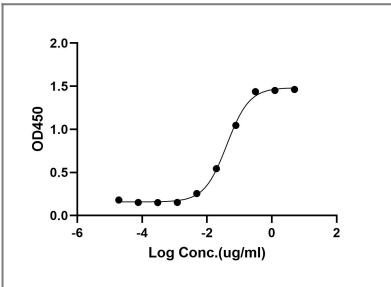
Immunogen Purified recombinant Human CD59

Specificity This recombinant monoclonal antibody can detects endogenous levels of CD59 protein.

Target Information

Gene name	CD59 MIC11 MIN1 MIN2 MIN3 MSK21		
Protein Name	CD59 glycoprotein (1F5 antigen) (20 kDa homologous restriction factor) (HRF-20) (HRF20) (MAC-inhibitory protein) (MAC-IP) (MEM43 antigen) (Membrane attack complex inhibition factor) (MACIF) (Membrane inhibitor of reactive lysis) (MIRL) (Protectin) (CD antigen CD59)		
	Organism	Gene ID	UniProt ID
	Human	3824 ;	P13987 ;
Cellular Localization	Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Soluble form found in a number of tissues.		
Tissue specificity	Expressed in NK cell subsets (at protein level) (PubMed:21825173, PubMed:94322, PubMed:948526). Expressed in memory/effector CD8-positive alpha-beta T cell subsets (at protein level) (PubMed:12387742, PubMed:2952657). Expressed in melanoma-specific cytotoxic T cell clones (at protein level) (PubMed:948526). Expressed in terminally differentiated cytotoxic gamma-delta T cells (at protein level) (PubMed:2952657). KLRD1-KLRC1 and KLRD1-KLRC2 are differentially expressed in NK and T cell populations, with only minor subsets expressing both receptor complexes (at protein level) (PubMed:2952657).		
Function	<p>Disease:Defects in CD59 are the cause of CD59 deficiency [MIM:612300].,Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase.,The soluble form from urine retains its specific complement binding activity, but exhibits greatly reduced ability to inhibit MAC assembly on cell membranes.,online information:CD59 mutation db,PTM:Glycated. Glycation is found in diabetic subjects, but only at minimal levels in nondiabetic subjects. Glycated CD59 lacks MAC-inhibitory function and confers to vascular complications of diabetes.,PTM:N- and O-glycosylated. The N-glycosylation mainly consists of a family of biantennary complex-type structures with and without lactosamine extensions and outer arm fucose residues. Also significant amounts of triantennary complexes (22%). Variable sialylation also present in the Asn-43 oligosaccharide. The predominant O-glycans are mono-sialylated forms of the disaccharide, Gal-beta-1,3GalNAc, and their sites of attachment are probably on Thr-76 and Thr-77. The GPI-anchor of soluble urinary CD59 has no inositol-associated phospholipid, but is composed of seven different GPI-anchor variants of one or more monosaccharide units. Major variants contain sialic acid, mannose and glucosamine Sialic acid linked to an N-acetylhexosamine-galactose arm is present in two variants.,similarity:Contains 1 UPAR/Ly6 domain.,subcellular location:Soluble form found in a number of tissues.,subunit:Interacts with T-cell surface antigen CD2.,</p>		

| Validation Data



| Contact information

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