Datasheet for ABIN7319878

SIGLEC10 Protein (Biotin)

2 Images

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Overview

Quantity:	100 µg
Target:	SIGLEC10
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SIGLEC10 protein is labelled with Biotin.

Product Details

Purpose:	Recombinant Human Siglec-10 (C-Fc-Avi) Biotinylated
Sequence:	Met17--Thr546
Characteristics:	Biotinylated Recombinant Human Sialic Acid-binding Ig-like Lectin 10 is produced by our Mammalian expression system and the target gene encoding Met17-Thr546 is expressed with a Fc, Avi tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Anti-Human Siglec10 mAb(Cat#NC035) at 1µg/ml (100 µl/well) can bind Biotinylated Human Siglec-10-Fc-Avi(Cat#CY47). The ED50 of Biotinylated Human Siglec-10-Fc-Avi(Cat#CY47) is 1.45 ng/ml.

Target Details

Target:	SIGLEC10
Alternative Name:	Siglec-10 (SIGLEC10 Products)
Background:	Background: Siglecs (sialic acid binding Ig-like lectins) are I-type lectins that belong to the immunoglobulin superfamily. They are characterized by an N-terminal Ig-like V-type domain which mediates sialic acid binding, followed by a varying number of Ig-like C2-type domains. Siglecs 5-11 constitute the CD33/Siglec-3 related group, and are differentially expressed in the hematopoietic system. Siglec-G is the apparent ortholog of human Siglec-10. We describe here a novel member of the siglec protein family that shares a similar structure including five Ig-like domains, a transmembrane domain, and a cytoplasmic tail containing two ITIM-signaling motifs. Siglec-10 was identified through database mining of an asthmatic eosinophil EST library. Siglec-10 binds sialated proteins and lipids in alpha 2,3 or alpha 2,6 linkage and shows a preference for GT1b gangliosides. This binding can be modulated by cis interactions of Siglec-10 with sialated molecules expressed on the same cell. When tyrosine phosphorylated, the cytoplasmic ITIMs interact with phosphatases SHP-1 and SHP-2 to propagate inhibitory signals. The Siglec-10-VAP-1 interaction seems to mediate lymphocyte adhesion to endothelium and has the potential to modify the inflammatory microenvironment via the enzymatic end products. Synonym: SIGLEC10, MGC126774, PRO940, Siglec10, SLG2, sialic acid-binding Ig-like lectin 10, Siglec-10, siglec-like gene 2, Siglec-like protein 2, SLG2sialic acid binding Ig-like lectin 10 Ig-like lectin 7
Molecular Weight:	86.9 kDa
UniProt:	Q96LC7

Application Details

Comment:	100-130 kDa
Restrictions:	For Research Use only

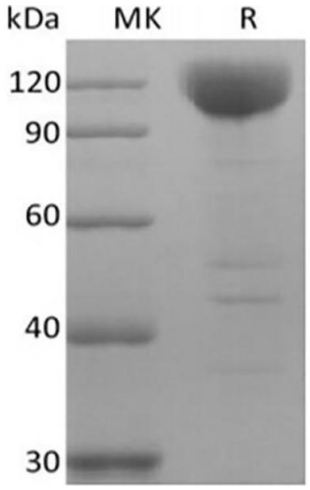
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C

Handling

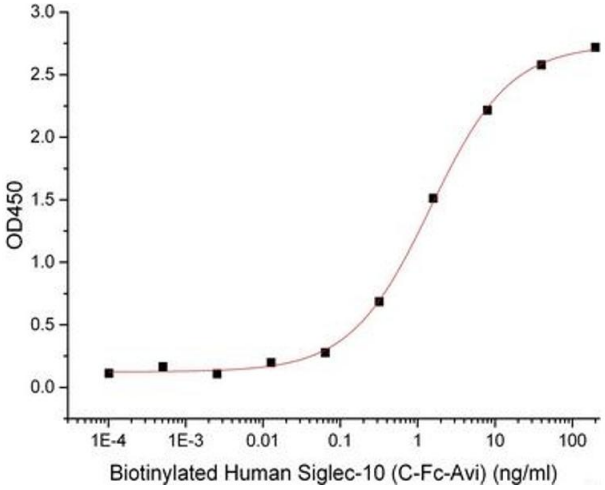
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.



ELISA

Image 2.