Datasheet for ABIN6923188

SIGLEC15 Protein (AA 20-263) (Fc Tag,AVI tag,Biotin)

2 Images

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Overview

Quantity:	200 µg
Target:	SIGLEC15
Protein Characteristics:	AA 20-263
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SIGLEC15 protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Sequence:	AA 20-263
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SIGLEC15
Alternative Name:	Siglec-15 (SIGLEC15 Products)
Background:	Siglec-15 is a DAP12-associated immunoreceptor, which belongs to the immunoglobulin

Target Details

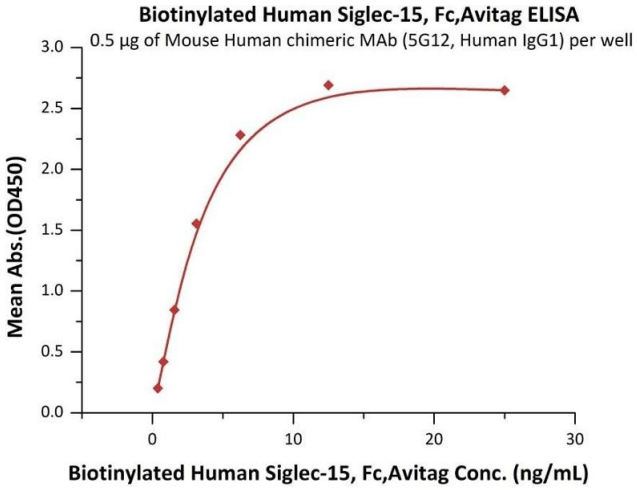
	superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. Siglecs are cell surface proteins that bind sialic acid. They are found primarily on the surface of immune cells and are a subset of the I-type lectins. Siglec-15 consisting of immunoglobulin (Ig)-like domains, transmembrane domain and a short cytoplasmic tail. Siglec-15 is that recognizes sialylated glycans and regulates osteoclast differentiation. Siglec-15 is a potential therapeutic target for osteoporosis and plays a conserved regulatory role in the immune system of vertebrates.
Molecular Weight:	54.8 kDa
NCBI Accession:	NP_998767

Application Details

Comment:	Ready-to-use AvitagTM biotinylated protein: The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

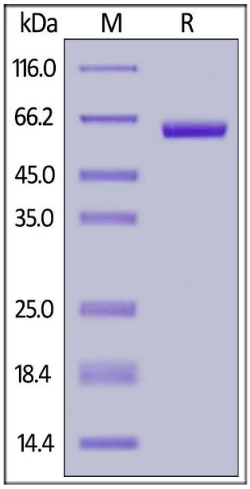
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



ELISA

Image 1. Immobilized Mouse Human chimeric MAb (5G12, Human IgG1) at 5 μg/mL (100 μL/well) can bind Biotinylated Human Siglec-15, Fc,Avitag (ABIN6923188,ABIN6938887) with a linear range of 0.4-3 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human Siglec-15, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .