Active Recombinant Human SIGLEC9 Homodimer Protein, His tagged

Cat. No. SIGLEC9-57H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Siglec 9 dimer protein contains a Siglec 9 extracellular domain (UniProt# Q9Y336) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	18-348 aa
Description	Human Sialic acid-binding Ig-like lectin 9 (Siglec 9) is a member of the Siglec family, part of the immunoglobulin superfamily, and a multifunctional immune regulator. It plays an important role in the immune system, especially in regulating inflammation and immune cell activation. Siglec 9 is also known as Cluster of Differentiation 329 (CD329), CDw329, FOAP-9, and OBBP-LIKE. Siglec 9 is a Type I transmembrane protein. It contains an extracellular domain with an N-terminal V-type immunoglobulin domain (Ig domain) and two C2-type Ig domains followed by a transmembrane domain and cytoplasmic signaling domain consisting of the immunoreceptor tyrosine-based inhibitory motif (ITIM). Siglec 9 is expressed on monocytes, neutrophils, and dendritic cells. It binds sialylated glycans on cell surfaces or secreted proteins, modulating cell-cell interactions and immune responses. Siglec 9 can form homodimers on the cell surface that plays a role in ligand binding, signal transduction, and receptor clustering. Some tumors express high levels of sialic acids to engage

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	Siglec 9 and suppress immune attacks — potential immune evasion mechanism. The interaction of sialic acids with Siglecs is associated with suppression of anti-tumor responses has made Siglecs an emerging target for cancer therapeutics.
Molecular Mass	88 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for Siglec 9-specific antibody binding assays. Suggested Applications: SPR & BLI for Siglec 9-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	SIGLEC9 sialic acid binding Ig-like lectin 9 [Homo sapiens (human)]
Official Symbol	SIGLEC9
Synonyms	SIGLEC9; sialic acid binding Ig-like lectin 9; sialic acid-binding Ig-like lectin 9; CD329; protein FOAP-9; CDw329; FOAP-9; siglec-9; OBBP-LIKE;
Gene ID	27180
mRNA Refseq	NM_001198558

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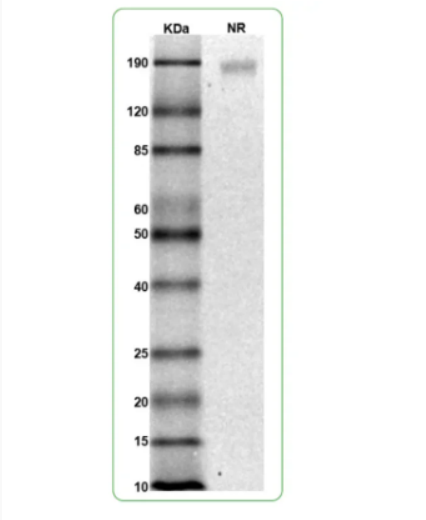
Protein Refseq	NP_001185487
MIM	605640
UniProt ID	Q9Y336
SDS-PAGE and WB	 MW: Molecular Weight marker reduced condition NR: Siglec 9 dimer under non-reduced condition

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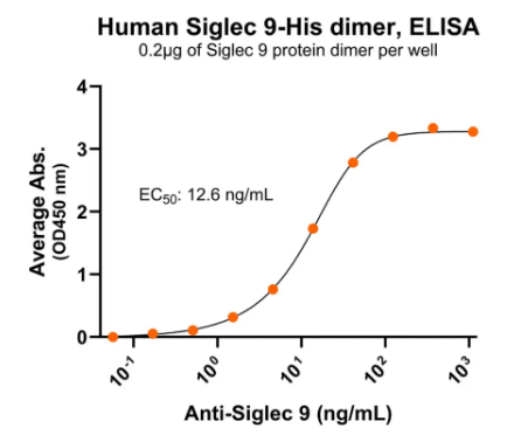
Bioactivity-Antibody Binding	 Immobilized human Siglec 9 protein dimer, His Tag at 2 μg/mL (100 μL/well) can bind anti-human Siglec 9 monoclonal antibody with half maximal effective concentration (EC50) range of 6.3-25.3 ng/mL (QC tested).

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