

## Siglec-10 Active Protein | SIGLEC10 active protein

Recombinant Human Siglec-10 (C-Fc)

CATALOG #  
**AAA177947**

HOST  
**Human Cells**

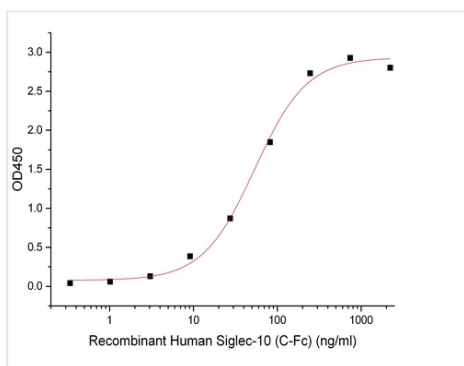
### PRODUCT SYNONYMS

Siglec-10; Recombinant Human Siglec-10 (C-Fc); SIGLEC10; MGC126774; PRO940; Siglec10; SLG2; sialic acid-binding Ig-like lectin 10; siglec-like gene 2; Siglec-like protein 2; SLG2sialic acid binding Ig-like lectin 10 Ig-like lectin 7; SIGLEC10 active protein

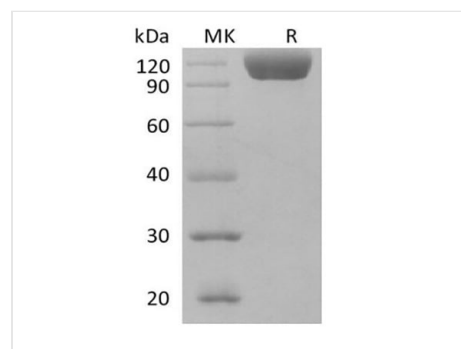
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Human Cells                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification     | >95% as determined by reducing SDS-PAGE                                                                                                                                                                                                                                                                                                       |
| Form/Format             | Lyophilized from a 0.2um filtered solution of PBS, pH7.4.                                                                                                                                                                                                                                                                                     |
| Sequence                | Met17-Thr5 46                                                                                                                                                                                                                                                                                                                                 |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                         |
| Tag                     | C-Fc                                                                                                                                                                                                                                                                                                                                          |
| Endotoxin               | <1.0EU per ug as determined by the LAL method.                                                                                                                                                                                                                                                                                                |
| Protein Construction    | 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 tag at the C-terminus.                                                                                                                                                |
| Activity                | Immobilized Anti-Human Siglec10 mAb at 2ug/ml (100ul/well) can bind Human Siglec-10-Fc . The ED50 of Human Siglec-10-Fc is 53.95ng/ml.                                                                                                                                                                                                        |
| Preparation and Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.<br>This product is provided as lyophilized powder which is shipped with ice packs. |

### IMAGES



Bioactivity



SDS-PAGE

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SIGLEC10 active protein | 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. |
| Product Categories/Family for SIGLEC10 active protein   | <a href="#">Tags &amp; Cell Markers</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 283837876                                       |
| NCBI GeneID                      | 89790                                           |
| NCBI Accession #                 | NP_001164627.1                                  |
| NCBI GenBank Nucleotide #        | NP_001164627.1                                  |
| UniProt Accession #              | Q96LC7                                          |
| NCBI Official Full Name          | sialic acid-binding Ig-like lectin 10 isoform 2 |
| NCBI Official Synonym Full Names | sialic acid binding Ig like lectin 10           |
| NCBI Official Symbol             | SIGLEC10                                        |
| NCBI Official Synonym Symbols    | SLG2; PRO940; SIGLEC-10                         |
| NCBI Protein Information         | sialic acid-binding Ig-like lectin 10           |
| UniProt Protein Name             | Sialic acid-binding Ig-like lectin 10           |
| UniProt Gene Name                | <b>SIGLEC10</b>                                 |
| UniProt Synonym Gene Names       | SLG2; Siglec-10                                 |
| UniProt Entry Name               | SIG10_HUMAN                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.