Siglec-10 Protein, Human (R119A, HEK293, His-Avi)

Cat. No.:	HY-P78514
Synonyms:	SLG2; SIGLEC10; MGC126774; PRO940
Species:	Human
Source:	HEK293
Accession:	Q96LC7 (M17-T546)
Gene ID:	89790
Molecular Weight:	70-90 kDa

PROPERTIES

AA Sequence	M D G R F W I R V Q E S V M V P E G L C I S V P C S F S Y P R Q D W T G S T P A Y G Y W F K A V T E T T K G A P V A T N H Q S R E V E M S T R G R F Q L T G D P A K G N C S L V I R D A Q M Q D E S Q Y F F R V E R G S Y V R Y N F M N D G F F L K V T A L T Q K P D V Y I P E T L E P G Q P V T V I C V F N W A F E E C P P P S F S W T G A A L S S Q G T K P T T S H F S V L S F T P R P Q D H N T D L T C H V D F S R K G V S A Q R T V R L R V A Y A P R D L V I S I S R D N T P A L E P Q P Q G N V P Y L E A Q K G Q F L R L L C A A D S Q P P A T L S W V L Q N R V L S S S H P W G P R P L G L E L P G V K A G D S G R Y T C R A E N R L G S Q Q R A L D L S V Q Y P P E N L R V M V S Q A N R T V L E N L G N G T S L P V L E G Q S L C L V C V T H S S P P A R L S W T Q R G Q V L S P S Q P S D P G V L E L P R V Q V E H E G E F T C H A R H P L G S Q H V S L S L S V H Y S P K L L G P S C S W E A E G L H C S C S S Q A S P A P S L R W W L G E E L L E G N S S Q D S F E V T P S S A G P W A N S S L S L H G G L S S G L R L R C E A W N V H G A Q S G S I L Q L P D K K G L I S T
Biological Activity	Immobilized Human Siglec-10 (R119A) His at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Anti-Siglec-10 (R119A) Antibody hFc with the EC_{50} of 18 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris,150 mM NaCl, 200 mM Arginine , pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Siglec-10 protein, recognized as a putative adhesion molecule, functions in sialic-acid dependent cellular binding, displaying a preference for alpha-2,3- or alpha-2,6-linked sialic acid. The sialic acid recognition site of Siglec-10 may undergo masking due to cis interactions with sialic acids on the same cell surface. In immune responses, it appears to act as an inhibitory receptor, inducing ligand-induced tyrosine phosphorylation and recruiting cytoplasmic phosphatases via their SH2 domains, blocking signal transduction through dephosphorylation of signaling molecules. Siglec-10 is involved in the negative regulation of B-cell antigen receptor signaling, dependent on PTPN6/SHP-1. In association with CD24, it may participate in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70, and HSP90. Siglec-10, in collaboration with CD24, regulates the immune response of natural killer (NK) cells and plays a role in the control of autoimmunity. During the initiation of adaptive immune responses by CD8-alpha(+) dendritic cells, Siglec-10 inhibits cross-presentation by impairing the formation of MHC class I-peptide complexes, implicating the recruitment of PTPN6/SHP-1 and promoting phagosomal acidification. Siglec-10 interacts with various proteins, including PTPN6/SHP-1, NCF1, CD24, HMGB1, RIGI, CBL, and PTPN11.

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