SIGLEC7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIGLEC7, Polyclonal Antibody
Full Product Name	SIGLEC7 Conjugated Antibody
Product Gene Name	anti-SIGLEC7 antibody
Product Synonym Names	p75; QA79; AIRM1; CD328; CDw328; D-siglec; SIGLEC-7; SIGLECP2; SIGLEC19P; p75/AIRM1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total SIGLEC7 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	39.5kDa (370aa) 40-57KDa (SDS-PAGE under reducing conditions.)
OMIM	604410
3D Structure	ModBase 3D Structure for Q9Y286
Immunogen	Synthetic peptide corresponding to residues near the C terminal of human sialic acid binding Ig-like lectin 7
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SIGLEC7 antibody	Most Applications
Application Notes for anti-SIGLEC7 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SIGLEC7 antibody	Sialic acid-binding Ig-like lectin 7 is a protein that in humans is encoded by the SIGLEC7 gene. SIGLEC7 has also been designated as CD328 (cluster of differentiation 328). Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2, 3- and alpha-2, 6-linked sialic acid. Also binds disialogangliosides (disialogalactosyl globoside, disialyl lactotetraosylceramide and disialyl GalNAc lactotetraoslylceramide). The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface.
Other Notes	Small volumes of anti-SIGLEC7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIGLEC7 purchase	MBS9447910 is an antibody targeting SIGLEC7. Also known as SIGLEC7 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIGLEC7. It may not necessarily be applicable to this product.

NCBI GI #	597709795
NCBI GeneID	943
NCBI Accession #	NP_001234
UniProt Primary Accession #	Q9Y286
UniProt Secondary Accession #	Q6P4D9; B1AN79; B9EGD9; D3YTD8
UniProt Related Accession #	P28908
GenBank Nucleotide #	NM_001243.4
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 8 isoform 1
NCBI Official Synonym Full Names	TNF receptor superfamily member 8
NCBI Official Symbol	TNFRSF8
NCBI Official Synonym Symbols	CD30; Ki-1; D1S166E
UniProt Protein Name	Sialic acid-binding Ig-like lectin 7
UniProt Synonym Protein Names	Adhesion inhibitory receptor molecule 1; AIRM-1; CDw328; D-siglec; QA79 membrane protein; p75; CD_antigen: CD328
Protein Family	Sialic acid-binding Ig-like lectin
UniProt Gene Name	SIGLEC7
UniProt Synonym Gene Names	AIRM1; Siglec-7; AIRM-1
UniProt Entry Name	SIGL7_HUMAN
NCBI Protein Information	tumor necrosis factor receptor superfamily member 8
NCBI Summary for SIGLEC7	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is expressed by activated, but not by resting, T and B cells. TRAF2 and TRAF5 can interact with this receptor, and mediate the signal transduction that leads to the activation of NF-kappaB. This receptor is a positive regulator of apoptosis, and also has been shown to limit the proliferative potential of autoreactive CD8 effector T cells and protect the body against autoimmunity. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for SIGLEC7	SIGLEC7: Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,3- and alpha-2,6-linked sialic acid. Also binds disialogangliosides (disialogalactosyl globoside, disialyl lactotetraosylceramide and disialyl GalNAc lactotetraoslylceramide). The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Mediates inhibition of natural killer cells cytotoxicity. May play a role in hemopoiesis. Inhibits differentiation of CD34+ cell precursors towards myelomonocytic cell lineage and proliferation of leukemic myeloid cells (in vitro). Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: integral to plasma membrane Molecular Function: receptor activity; carbohydrate binding Biological Process: cell adhesion

Research Articles on SIGLEC7	**1.** This study suggests that in patients with CD30+ lymphoproliferative disorders, an aggressive clinical course cannot be defined by the presence of TP63 rearrangements, as was recently shown in systemic ALK negative anaplastic large cell lymphoma.
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