

SIGLEC7 (D-siglec) Antibody (C-term H422) Blocking peptide
Synthetic peptide
Catalog # BP1633c**Specification****SIGLEC7 (D-siglec) Antibody (C-term H422)
Blocking peptide - Product Information**

Primary Accession [Q9Y286](#)
Other Accession [Q9NZQ1](#)

**SIGLEC7 (D-siglec) Antibody (C-term H422)
Blocking peptide - Additional Information**

Gene ID 27036

Other Names

Sialic acid-binding Ig-like lectin 7, Siglec-7,
Adhesion inhibitory receptor molecule 1,
AIRM-1, CDw328, D-siglec, QA79 membrane
protein, p75, CD328, SIGLEC7, AIRM1

Target/Specificity

The synthetic peptide sequence used to
generate the antibody [AP1633c](/product/products/AP1633c) was
selected from the C-term region of human
D-siglec . A 10 to 100 fold molar excess to
antibody is recommended. Precise
conditions should be optimized for a
particular assay.

Format

Peptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.

Storage

Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.

Precautions

This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.

**SIGLEC7 (D-siglec) Antibody (C-term H422)
Blocking peptide - Protein Information****SIGLEC7 (D-siglec) Antibody (C-term
H422) Blocking peptide - Background**

SIGLECs are cell surface proteins of the Ig
superfamily. Most SIGLECs have 1 or more
cytoplasmic immune receptor tyrosine-based
inhibitory motifs, or ITIMs. A large subgroup of
SIGLECs share high homology with SIGLEC3
(CD33) and are localized to 19q13.4. The cDNA
for the SLG gene encodes 2 variants, SLG-long
(SLGL) and SLG-short (SLGS). The 595-amino
acid SLGL protein contains a signal peptide and
2 V-set N-terminal Ig-like domains. The
477-amino acid SLGS protein has a weak signal
sequence and, like most SIGLEC3-like SIGLECs,
has only 1 V-set N-terminal Ig-like domain.
Both variants contain 2 C2-set N-terminal
Ig-like domains, a transmembrane domain, and
a cytoplasmic tail with a putative ITIM and a
putative SLAM-like tyrosine-based motif. The
conserved arginine residue thought to be
essential for sialic acid binding in other
SIGLECs is replaced by a glutamine in SLGS
and by a cysteine in SLGL. RT-PCR analysis
detected high expression of both variants in
spleen and small intestine, and SLGS was
highly expressed in adrenal gland and SLGL
was highly expressed in bone marrow.

**SIGLEC7 (D-siglec) Antibody (C-term
H422) Blocking peptide - References**

Nicoll, G., et al., Eur. J. Immunol.
33(6):1642-1648 (2003).Alphey, M.S., et al., J.
Biol. Chem. 278(5):3372-3377 (2003).Angata,
T., et al., Glycobiology 10(4):431-438
(2000).Falco, M., et al., J. Exp. Med.
190(6):793-802 (1999).Nicoll, G., et al., J. Biol.
Chem. 274(48):34089-34095 (1999).

Name SIGLEC7

Synonyms AIRM1

Function

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 lactotetraosylceramide). 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).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Predominantly expressed by resting and activated natural killer cells and at lower levels by granulocytes and monocytes High expression found in placenta, liver, lung, spleen, and peripheral blood leukocytes

SIGLEC7 (D-siglec) Antibody (C-term H422) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)