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SIGLEC5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16649a

Specification

SIGLEC5 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O15389

SIGLEC5 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8778

Other Names
Sialic acid-binding Ig-like lectin 5, Siglec-5, CD33 antigen-like 2, Obesity-binding protein 2, OB-BP2, OB-binding protein 2, CD170, SIGLEC5, CD33L2, OBBP2

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.

SIGLEC5 Antibody (N-term) Blocking Peptide - Protein Information

Name SIGLEC5

Synonyms CD33L2, OBBP2

Function
Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Binds equally to alpha-2,3-linked and alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface.

Cellular Location
Membrane; Single-pass type I membrane protein.

Tissue Location
Expressed by monocytic/myeloid lineage cells. Found at high levels in peripheral blood leukocytes, spleen, bone marrow and at lower levels in lymph node, lung, appendix, placenta, pancreas and thymus. Expressed by monocytes and neutrophils but absent from leukemic cell lines representing early stages of myelomonocytic differentiation

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SIGLEC5 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SIGLEC5 Antibody (N-term) Blocking Peptide - Images

SIGLEC5 Antibody (N-term) Blocking Peptide - Background

The sialic acid-binding immunoglobulin-like lectins(SIGLECs), such as SIGLEC5, are a subgroup of the immunoglobulin(Ig) superfamily that mediate protein-carbohydrate interactions.They specifically interact with sialic acids in glycoproteins andglycolipids, with each SIGLEC having a particular preference forboth the nature of the sialic acid and its glycosidic linkage toadjacent sugars. SIGLECs have similar structures, includingextracellular Ig-like domains composed of an N-terminal V-setdomain followed by varying numbers of C2-set domains. It appearsthat all SIGLECs have an unusual arrangement of conserved cysteineresidues in the V-set and adjacent C2-set domains. Most SIGLECs areexpressed uniquely within the hematopoietic system (Cornish et al.,1998 [PubMed 9731071]).

SIGLEC5 Antibody (N-term) Blocking Peptide - References

Soto, P.C., et al. J. Immunol. 184(8):4185-4195(2010)Davila, S., et al. Genes Immun. 11(3):232-238(2010)Carlin, A.F., et al. J. Exp. Med. 206(8):1691-1699(2009)Zhuravleva, M.A., et al. J. Mol. Biol. 375(2):437-447(2008)Gunnarsson, P., et al. FASEB J. 21(14):4059-4069(2007)