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SIGLEC8 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1626b

Specification

SIGLEC8 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9NYZ4

SIGLEC8 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 27181

Other Names
Sialic acid-binding Ig-like lectin 8, Siglec-8, Sialoadhesin family member 2, SAF-2, SIGLEC8, SAF2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1626b was selected from the C-term region of human SIGLEC8 . 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.

SIGLEC8 Antibody (C-term) Blocking Peptide - Protein Information

Name SIGLEC8

Synonyms SAF2

Function
Putative adhesion molecule that mediates sialic-acid dependent binding to red blood cells (PubMed:10856141, PubMed:10625619). Preferentially binds to alpha-2,3-linked sialic acid. Also binds to 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 (PubMed:10625619). Recognizes simultaneously epitopes having a terminal N-acetylneuraminic acid (sialic acid) and an underlying 6-O-sulfated galactose. Preferentially binds to Gal-6- sulfated sialyl-Lewis X glycan epitopes (PubMed:27357658).

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

Tissue Location
Expressed specifically on red blood cells namely basophil, mast cells and eosinophils.

SIGLEC8 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SIGLEC8 Antibody (C-term) Blocking Peptide - Images

SIGLEC8 Antibody (C-term) Blocking Peptide - Background

SIGLEC8 is a putative adhesion molecule that mediates sialic-acid dependent binding to cells. It preferentially binds to alpha2,3-linked sialic acid. and also binds to alpha2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. SIGLEC8 is expressed specifically on eosinophils. The protein contains 1 copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in downmodulation of cellular responses. The phosphorylated ITIM motif binds to the SH2 domain of PTPN6/SHP-1. The SIGLEC8 gene belongs to the immunoglobulin superfamily.

SIGLEC8 Antibody (C-term) Blocking Peptide - References

Foussias, G., et al., Biochem. Biophys. Res. Commun. 278(3):775-781 (2000).Floyd, H., et al., J. Biol. Chem. 275(2):861-866 (2000).Kikly, K.K., et al., J. Allergy Clin. Immunol. 105 (6 Pt 1), 1093-1100 (2000).