

Goat Anti-SIGLEC8 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1991a**Specification**

Goat Anti-SIGLEC8 Antibody - Product Information

Application	WB, E
Primary Accession	O9NYZ4
Other Accession	NP_055257 , 27181
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	54042

Goat Anti-SIGLEC8 Antibody - Additional Information**Gene ID** 27181**Other Names**

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

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SIGLEC8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SIGLEC8 Antibody - Protein Information**Name** SIGLEC8**Synonyms** SAF2**Function**

Putative adhesion molecule that mediates sialic-acid dependent binding to blood cells (PubMed:<a

<http://www.uniprot.org/citations/10625619> target="_blank">10625619, PubMed:10856141). 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 blood cells namely basophil, mast cells and eosinophils.

Goat Anti-SIGLEC8 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SIGLEC8 Antibody - Images



AF1991a (0.3 µg/ml) staining of MOLT4 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-SIGLEC8 Antibody - Background

Sialic acid-binding immunoglobulin (Ig)-like lectins, or SIGLECs (e.g., CD33 (MIM 159590)), are a family of type 1 transmembrane proteins each having a unique expression pattern, mostly in hemopoietic cells. SIGLEC8 is a member of the CD33-like subgroup of SIGLECs, which are localized to 19q13.3-q13.4 and have 2 conserved cytoplasmic tyrosine-based motifs: an immunoreceptor tyrosine-based inhibitory motif, or ITIM (see MIM 604964), and a motif homologous to one identified in signaling lymphocyte activation molecule (SLAM; MIM 603492) that mediates an association with

SLAM-associated protein (SAP; MIM 300490) (summarized by Foussias et al., 2000 [PubMed 11095983]).

Goat Anti-SIGLEC8 Antibody - References

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

Polymorphisms in the sialic acid-binding immunoglobulin-like lectin-8 (Siglec-8) gene are associated with susceptibility to asthma. Gao PS, et al. Eur J Hum Genet, 2010 Jun. PMID 20087405.

Eosinophil-selective binding and proapoptotic effect in vitro of a synthetic Siglec-8 ligand, polymeric 6'-sulfated sialyl Lewis x. Hudson SA, et al. J Pharmacol Exp Ther, 2009 Aug. PMID 19458105.

Siglec-8 on human eosinophils and mast cells, and Siglec-F on murine eosinophils, are functionally related inhibitory receptors. Bochner BS. Clin Exp Allergy, 2009 Mar. PMID 19178537.

Natural anti-Siglec autoantibodies mediate potential immunoregulatory mechanisms: implications for the clinical use of intravenous immunoglobulins (IVIg). von Gunten S, et al. Autoimmun Rev, 2008 Jun. PMID 18558361.