Siglec 5 (SIGLEC5) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Siglec 5 (SIGLEC5), Polyclonal Antibody
Full Product Name	Siglec 5, NT (Siglec 5, CD33L2, OBBP2, Sialic acid-binding Ig-like lectin 5, CD33 antigen-like 2, Obesity-binding protein 2, CD170) (MaxLight 550)
Product Gene Name	anti-SIGLEC5 antibody
Product Synonym Names	SIGLEC5; CD33L2; OBBP2; Sialic acid-binding Ig-like lectin 5; CD33 antigen-like 2; Obesity-binding protein 2; CD170
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	60,715 Da
OMIM	AF170484 mRNA
3D Structure	ModBase 3D Structure for O15389
Immunogen	SIGLEC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-132 amino acids from the N-terminal region of human SIGLEC5.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-SIGLEC5 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-SIGLEC5 antibody	Western Blot (WB), FLISA
Application Notes for anti-SIGLEC5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SIGLEC5 antibody	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 and glycolipids, with each SIGLEC having a particular preference for both the nature of the sialic acid and its glycosidic linkage to adjacent sugars. SIGLECs have similar structures, including extracellular Ig-like domains composed of an N-terminal V-set domain followed by varying numbers of C2-set domains. It appears that all SIGLECs have an unusual arrangement of conserved cysteine residues in the V-set and adjacent C2-set domains. Most SIGLECs are expressed uniquely within the hematopoietic system (Cornish et al., 1998 [PubMed 9731071]).

Product References and Citations for anti-SIGLEC5 antibody	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).
Other Notes	Small volumes of anti-SIGLEC5 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 SIGLEC5 purchase	MBS6347622 is an antibody targeting SIGLEC5. Also known as Siglec 5, NT (Siglec 5, CD33L2, OBBP2, Sialic acid-binding Ig-like lectin 5, CD33 antigen-like 2, Obesity-binding protein 2, CD170) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIGLEC5. It may not necessarily be applicable to this product.

NCBI GI #	4502659
NCBI GeneID	8778
NCBI Accession #	NP_003821.1
UniProt Primary Accession #	O15389
UniProt Related Accession #	O15389
GenBank Nucleotide #	NM_003830.3
NCBI Official Full Name	sialic acid-binding Ig-like lectin 5
NCBI Official Synonym Full Names	sialic acid binding Ig like lectin 5
NCBI Official Symbol	SIGLEC5
NCBI Official Synonym Symbols	CD170; OBBP2; CD33L2; OB-BP2; SIGLEC-5
UniProt Protein Name	Sialic acid-binding Ig-like lectin 5
UniProt Synonym Protein Names	CD33 antigen-like 2; Obesity-binding protein 2; OB-BP2; OB-binding protein 2; CD_antigen: CD170
Protein Family	Sialic acid-binding Ig-like lectin
UniProt Gene Name	SIGLEC5
UniProt Synonym Gene Names	CD33L2; OBBP2; Siglec-5; OB-BP2; OB-binding protein 2
NCBI Protein Information	sialic acid-binding Ig-like lectin 5
NCBI Summary for SIGLEC5	This gene encodes a member of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. These cell surface lectins are characterized by structural motifs in the immunoglobulin (Ig)-like domains and sialic acid recognition sites in the first Ig V set domain. The encoded protein is a member of the CD33-related subset of Siglecs and inhibits the activation of several cell types including monocytes, macrophages and neutrophils. Binding of group B Streptococcus (GBS) to the encoded protein plays a role in GBS immune evasion. [provided by RefSeq, Feb 2012]
UniProt Comments for SIGLEC5	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.
Research Articles on SIGLEC5	**1.** An unbiased screen revealed Hsp70 as a ligand for Siglec-5 and Siglec-14. Hsp70 stimulation through Siglec-5 delivers an anti-inflammatory signal, while stimulation through Siglec-14 is pro-inflammatory.
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