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SIGLEC15 Antibody

Catalog # ASC11455

Product Information

Application	WB, E, IHC-P
Primary Accession	Q6ZMC9
Other Accession	NP_998767, 47106069
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	35653
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SIGLEC15 antibody can be used for detection of SIGLEC15 by Western blot at 1 - 2 □g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 □g/mL.

Additional Information

Gene ID	284266
Other Names	Sialic acid-binding Ig-like lectin 15, Siglec-15, CD33 antigen-like 3, SIGLEC15, CD33L3
Target/Specificity	SIGLEC15; SIGLEC15 antibody is predicted to not cross-react with other SIGLEC family members.
Reconstitution & Storage	SIGLEC15 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SIGLEC15 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SIGLEC15
Synonyms	CD33L3
Function	Binds sialylated glycoproteins.
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Expressed in macrophage and/or dendritic cells of spleen and lymph nodes

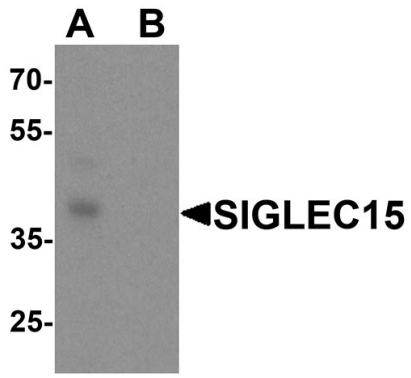
Background

SIGLEC15 Antibody: Siglecs are vertebrate cell-surface lectins that recognize sialylated glycans and are involved in many physiological processes, such as glycoprotein turnover, cellular trafficking, and pathogen recognition. Most Siglecs are expressed on cells of the immune system. SIGLEC15 is a type-I transmembrane protein consisting of two immunoglobulin (Ig)-like domains, a transmembrane domain containing a lysine residue, and a short cytoplasmic tail. SIGLEC15 can interact with the activating adaptor molecules DAP12/10. Its activating signaling potential and unique preference for glycan recognition implies that SIGLEC15 may be involved in the immune surveillance of tumors and probably plays a conserved, regulatory role in the immune system of vertebrates.

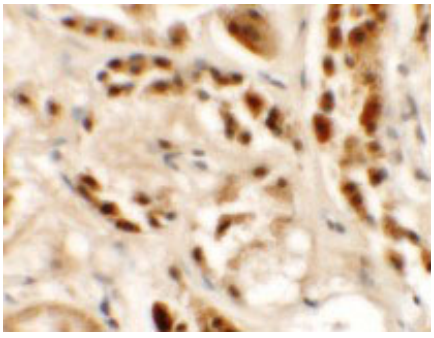
References

Crocker PR and Redelinghuys P. Siglecs as positive and negative regulators of the immune system. Biochem. Soc. Trans. 2008; 36:1467-71.
Angata T, Tabuchi Y, Nakamura K, et al. Siglec-15: an immune system Siglec conserved throughout vertebrate evolution. Glycobiology 2007; 17:838-46
Hiruma Y, Hirai T, and Tsuda E. Siglec-15, a member of the sialic acid-binding lectin, is a novel regulator for osteoclast differentiation. Biochem. Biophys. Res. Commun. 2011; 409:424-9.

Images



Western blot analysis of SIGLEC15 in K562 cell lysate with SIGLEC15 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of SIGLEC15 in human kidney tissue with SIGLEC15 antibody at 2.5 µg/mL.