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SIGLEC8 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1626b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NYZ4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2478
Calculated MW	54042
Antigen Region	373-406

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	This SIGLEC8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 373-406 amino acids from the C-terminal region of human SIGLEC8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SIGLEC8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SIGLEC8
Synonyms	SAF2
Function	Putative adhesion molecule that mediates sialic-acid dependent binding to blood cells (PubMed: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.

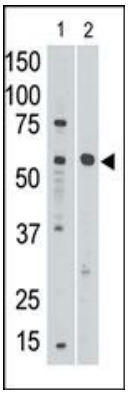
Background

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.

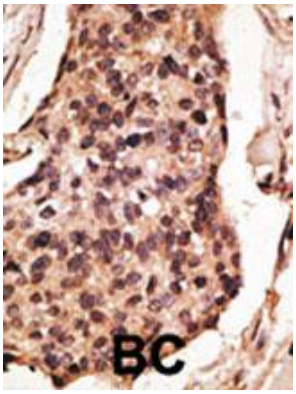
References

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).

Images



The anti-Siglec8 C-term Pab (Cat. #AP1626b) is used in Western blot to detect Siglec8 in mouse liver tissue lysate (lnae 1) and in HL60 cell lysate (lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.