



Anti-SIGLEC9 polyclonal antibody [Biotin] (DPABY-621)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Siglecs are I-type (Ig-type) lectins belonging to the Ig superfamily. They are characterized by an N-terminal, Ig-like V-type domain that mediates sialic acid binding, followed by varying numbers of Ig-like C2-type domains (2 to 17), a single transmembrane region, and a cytoplasmic tail. The siglecs can be broadly classified into two subgroups: Siglecs-1, -2, and -4, and a Siglec-3/CD33-related subgroup (Siglecs-3, and -5 through -13 in primates) defined by sequence similarity and clustered gene localization. They are widely expressed on hematopoietic cells, often in a cell-type-specific manner, and Siglec-4/MAG is a myelin component in Schwann cells and oligodendrocytes. Their ligands, sialic acids, are negatively charged monosaccharides found on cell-surface glycoproteins and glycolipids. Although Siglec functions continue to be defined, most have intracellular immunoreceptor tyrosine-based inhibitory motifs (ITIM), implicating them in the suppression of immunoreceptor signaling. They may also participate in cell/cell interactions or act as receptors for the entry of viral or bacterial pathogens.

Specificity

Detects human Siglec-9 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 0.2% cross-reactivity with recombinant human (rh)Siglec-2, rhSiglec-3, rhSiglec-5, rhSiglec-7, and rhSiglec-10 is observed. In Western blots, approximately 25%cross-reactivity with rhSiglec-7 is observed, 5%cross-reactivity with rhSiglec-3 andrhSiglec-5 is observed,and less than 1%cross-reactivity with rhSiglec-2 is observed.

Immunogen

Mouse myeloma cell line NS0-derived recombinant human Siglec-9. Gln18-Gly348 Accession Number Q9Y336

Isotype

IgG

Source/Host

Goat

Species Reactivity

Human

Purification

Antigen Affinity-purified

Conjugate	Biotin
Applications	Western Blot, Flow Cytometry, Immunocytochemistry, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.
Preservative	None
Storage	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to - 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at - 20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SIGLEC9 sialic acid binding Ig-like lectin 9 [Homo sapiens (human)]
Official Symbol	SIGLEC9
Synonyms	SIGLEC9; sialic acid binding Ig-like lectin 9; CD329; CDw329; FOAP-9; siglec-9; OBBP-LIKE; sialic acid-binding Ig-like lectin 9; protein FOAP-9;
Entrez Gene ID	27180
Protein Refseq	NP_001185487
UniProt ID	Q9Y336
Chromosome Location	19q13.41
Function	carbohydrate binding;