

SIGLEC12 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1634b

Specification

SIGLEC12 Antibody (C-term) - Product Information

Application WB, IHC-P,E Primary Accession Q96PQ1

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 64984
Antigen Region 565-595

SIGLEC12 Antibody (C-term) - Additional Information

Gene ID 89858

Other Names

Sialic acid-binding Ig-like lectin 12, Siglec-12, Sialic acid-binding Ig-like lectin-like 1, Siglec-L1, SIGLEC12, SIGLECL1, SLG

Target/Specificity

This SIGLEC12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 565-595 amino acids from the C-terminal region of human SIGLEC12.

Dilution

WB~~1:1000 IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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.

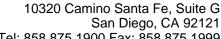
Precautions

SIGLEC12 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SIGLEC12 Antibody (C-term) - Protein Information

Name SIGLEC12

Synonyms SIGLECL1, SLG







Function Putative adhesion molecule that mediates sialic-acid dependent binding to cells. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface.

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

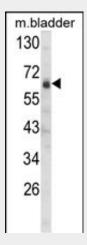
Isoform Short is highly expressed in spleen, small intestine and adrenal gland; it is lower expressed in thyroid, placenta, brain, stomach, bone marrow, spinal cord and breast. Isoform Long is highly expressed in spleen, small intestine and bone marrow; it is lower expressed in thyroid, placenta, thymus, trachea, stomach, lung, adrenal gland, fetal brain and testis

SIGLEC12 Antibody (C-term) - Protocols

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

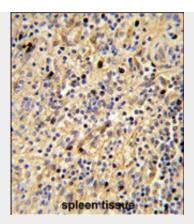
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

SIGLEC12 Antibody (C-term) - Images



Western blot analysis of SIGLEC12 Antibody (C-term) (Cat. #AP1634b) in mouse bladder tissue lysates (35ug/lane). SIGLEC12 (arrow) was detected using the purified Pab.





Formalin-fixed and paraffin-embedded human spleen tissue reacted with SIGLEC12 Antibody (C-term) (Cat. #AP1634b), 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.

SIGLEC12 Antibody (C-term) - Background

Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. SIGLEC12 is a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. This protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor.

SIGLEC12 Antibody (C-term) - References

Angata, T., J. Biol. Chem. 276 (43), 40282-40287 (2001) Yu, Z., J. Biol. Chem. 276 (26), 23816-23824 (2001) Foussias, G., Biochem. Biophys. Res. Commun. 284 (4), 887-899 (2001)