

# SIGLEC11 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1629b

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC-P, E           |
| Primary Accession | <a href="#">Q96RL6</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB2485                 |
| Calculated MW     | 75795                  |
| Antigen Region    | 631-662                |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 114132                                                                                                                                                                       |
| Other Names        | Sialic acid-binding Ig-like lectin 11, Sialic acid-binding lectin 11, Siglec-11, SIGLEC11                                                                                    |
| Target/Specificity | This SIGLEC11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 631-662 amino acids from the C-terminal region of human SIGLEC11. |
| 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        | SIGLEC11 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                 |

## Protein Information

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|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | SIGLEC11                                                                                                                                                                                                                                                                                                        |
| Function | Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,8-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor |

upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules.

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

Expressed by macrophages in various tissues including Kupffer cells. Also found in brain microglia

## Background

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SIGLECs are members of the immunoglobulin superfamily that are expressed on the cell surface. Most SIGLECs have one or more cytoplasmic immune receptor tyrosine-based inhibitory motifs (ITIM). SIGLECs are typically expressed on cells of the innate immune system, with the exception of the B-cell expressed SIGLEC6. Sequence analysis predicted that the 697-amino acid SIGLEC10 protein contains a signal peptide, an N-terminal V-set Ig-like domain and four C2-set Ig-like domains, five potential N-linked glycosylation sites, a transmembrane region, and a 126-residue cytoplasmic tail with 3 putative ITIMs. Northern blot analysis detected a major 3.0-kb SIGLEC10 transcript, with highest levels in spleen, lymph node, blood leukocytes, and appendix. Little or no expression was observed in pancreas, thyroid, and testis. Flow cytometric analysis demonstrated eosinophil-specific expression of SIGLEC10, but at a lower level than that of SIGLEC8. Expression was also detected on monocytes and a CD16-positive/CD56-negative natural killer-like lymphocyte population. After sialidase treatment, which is necessary for unmasking the sialic acid-binding site on SIGLECs interacting with cell surface sialic acids, cells expressing SIGLEC10 bound to red blood cells. Immunoprecipitation analysis indicated expression of a 100- to 120-kD monomeric protein, higher than the predicted molecular mass, suggesting that SIGLEC10 is glycosylated.

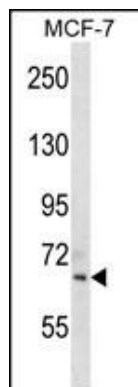
## References

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Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003). Angata, T., et al., J. Biol. Chem. 277(27):24466-24474 (2002).

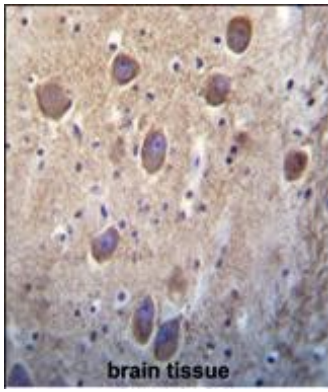
## Images

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SIGLEC11 Antibody (Cat. #AP1629b) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SIGLEC11 antibody detected the SIGLEC11 protein (arrow).

SIGLEC11 Antibody (C-term) (Cat. #AP1629b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SIGLEC11 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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