

NEU4 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10385b**Specification**

NEU4 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [Q8WWR8](#)
Other Accession [NP_001161072.1](#), [NP_542779.2](#),
[NP_001161074.1](#), [NP_001161071.1](#),
[NP_001161073.1](#)

NEU4 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 129807

Other Names

Sialidase-4, N-acetyl-alpha-neuraminidase 4, NEU4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NEU4 Antibody (C-term) Blocking peptide - Protein Information

Name NEU4

Function

Exo-alpha-sialidase that catalyzes the hydrolytic cleavage of the terminal sialic acid (N-acetylneuraminic acid, Neu5Ac) of a glycan moiety in the catabolism of glycolipids, glycoproteins and oligosaccharides. Efficiently hydrolyzes gangliosides including alpha-(2->3)-sialylated GD1a and GM3 and alpha-(2->8)-sialylated GD3 (PubMed:15847605, PubMed:21521691, PubMed:15213228). Hydrolyzes poly- alpha-(2->8)-sialylated neural cell adhesion molecule NCAM1 likely at growth cones, suppressing neurite outgrowth in hippocampal neurons (By similarity). May desialylate sialyl Lewis A and X antigens at the cell surface, down-regulating these glycan epitopes recognized by SELE/E selectin in the initiation of cell adhesion and extravasation (PubMed:21521691). Has sialidase activity toward mucin, fetuin and sialyllactose (PubMed:15847605).

Cellular Location

[Isoform 1]: Cell membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Cell projection, neuron projection
{ECO:0000250|UniProtKB:Q8BZL1} Note=Predominantly associates with endoplasmic reticulum membranes Only a small fraction associates with mitochondrial and plasma membranes.

Tissue Location

[Isoform 1]: Predominant form in liver. Also expressed in brain, kidney and colon.

NEU4 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

NEU4 Antibody (C-term) Blocking peptide - Images**NEU4 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene belongs to a family of glycohydrolytic enzymes, which remove terminal sialic acid residues from various sialo derivatives, such as glycoproteins, glycolipids, oligosaccharides, and gangliosides. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

NEU4 Antibody (C-term) Blocking peptide - References

Bigi, A., et al. Glycobiology 20(2):148-157(2010)Xin, X., et al. Genome Res. 19(7):1262-1269(2009)Miyagi, T., et al. Proteomics 8(16):3303-3311(2008)Stamatos, N.M., et al. FEBS J. 272(10):2545-2556(2005)Hillier, L.W., et al. Nature 434(7034):724-731(2005)