

NEU2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12189a**Specification**

NEU2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9Y3R4](#)**NEU2 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 4759**Other Names**

Sialidase-2, Cytosolic sialidase, N-acetyl-alpha-neuraminidase 2, NEU2

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.

NEU2 Antibody (N-term) Blocking peptide - Protein Information**Name** NEU2**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 (PubMed: [14613940](http://www.uniprot.org/citations/14613940), PubMed: [22228546](http://www.uniprot.org/citations/22228546)). Recognizes sialyl linkage positions of the glycan moiety as well as the supramolecular organization of the sialoglycoconjugate. Displays preference for alpha-(2->3)-sialylated GD1a and GT1B gangliosides over alpha-(2->8)-sialylated GD1b, in both monomeric forms and micelles. Hydrolyzes monomeric GM1 ganglioside, but has no activity toward the micellar form (PubMed: [14613940](http://www.uniprot.org/citations/14613940)). Has lower sialidase activity for glycoproteins such as fetuin and TF/transferrin that carry a mixture of alpha-(2->3) and alpha-(2->6)-sialyl linkages. Cleaves milk oligosaccharide alpha-(2->3)-sialyllactose, but is inactive toward alpha-(2->6)-sialyllactose isomer. Has no activity toward colominic acid, a homomer of alpha-(2->8)-linked Neu5Ac residues (PubMed: [14613940](http://www.uniprot.org/citations/14613940)).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Expressed in skeletal muscle, fetal liver and embryonic carcinoma cell line NT2-D1.

NEU2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

NEU2 Antibody (N-term) Blocking peptide - Images**NEU2 Antibody (N-term) Blocking peptide - Background**

This gene belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. Expression studies in COS7 cells confirmed that this gene encodes a functional sialidase. Its cytosolic localization was demonstrated by cell fractionation experiments. [provided by RefSeq].

NEU2 Antibody (N-term) Blocking peptide - References

Stoppani, E., et al. Cell Biol. Int. 33(9):1020-1025(2009) Li, C.Y., et al. Cell Res. 17(4):357-362(2007) Chavas, L.M., et al. J. Biol. Chem. 280(1):469-475(2005) Seyrantepe, V., et al. J. Biol. Chem. 279(35):37021-37029(2004) Tringali, C., et al. J. Biol. Chem. 279(5):3169-3179(2004)