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# Mouse Neu3 Antibody (N-term) Blocking Peptide

**Synthetic peptide**
**Catalog # BP16454a**

## Specification

### Mouse Neu3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9JMH7

### Mouse Neu3 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 50877

**Other Names**
Sialidase-3, Ganglioside sialidase, Membrane sialidase, N-acetyl-alpha-neuraminidase 3, Neu3

**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.

### Mouse Neu3 Antibody (N-term) Blocking Peptide - Protein Information

**Name** Neu3

**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 oligosacharides. Displays high catalytic efficiency for gangliosides including alpha-(2->3)-sialylated GD1a and GM3 and alpha-(2->8)- sialylated GD3 (PubMed:<a href="http://www.uniprot.org/citations/17708748" target="_blank">17708748</a>, PubMed:<a href="http://www.uniprot.org/citations/10713120" target="_blank">10713120</a>, PubMed:<a href="http://www.uniprot.org/citations/11696012" target="_blank">11696012</a>, PubMed:<a href="http://www.uniprot.org/citations/14970224" target="_blank">14970224</a>). Plays a role in the regulation of transmembrane signaling through the modulation of ganglioside content of the lipid bilayer and by direct interaction with signaling receptors, such as EGFR. Desialylates EGFR and activates downstream signaling in proliferating cells. Contributes to clathrin-mediated endocytosis by regulating sorting of endocytosed receptors to early and recycling endosomes (By similarity).

**Cellular Location**
Cell membrane; Peripheral membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:Q9UQ49}. Early endosome membrane; Peripheral membrane protein. Recycling endosome membrane; Peripheral membrane protein. Lysosome membrane

{ECO:0000250|UniProtKB:Q9UQ49}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9UQ49}. Note=Associates with the external leaflet of the plasma membrane (PubMed:17708748). S-acylated NEU3 likely spans the lipid bilayer with a portion of C-terminus exposed to cytosol and the catalytic region facing the extracellular space (By similarity). {ECO:0000250|UniProtKB:Q9UQ49, ECO:0000269|PubMed:17708748}

**Tissue Location**
Expressed in heart, brain and cerebral cortex.

## Mouse Neu3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

## Mouse Neu3 Antibody (N-term) Blocking Peptide - Images

## Mouse Neu3 Antibody (N-term) Blocking Peptide - Background

Neu3 plays a role in modulating the ganglioside content of the lipid bilayer at the level of membrane-bound sialyl glycoconjugates (By similarity).

## Mouse Neu3 Antibody (N-term) Blocking Peptide - References

Shiozaki, K., et al. J. Biol. Chem. 284(32):21157-21164(2009)Shiozaki, K., et al. Cancer Sci. 100(4):588-594(2009)Anastasia, L., et al. J. Biol. Chem. 283(52):36265-36271(2008)Anastasia, L., et al. Biochim. Biophys. Acta 1780(3):504-512(2008)Ngamukote, S., et al. J. Neurochem. 103(6):2327-2341(2007)