

NEU4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10385b

Specification

NEU4 Antibody (C-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q8WWR8
Other Accession	NP_001161072.1 , NP_542779.2 , NP_001161074.1 , NP_001161071.1 , NP_001161073.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	423-452

NEU4 Antibody (C-term) - Additional Information

Gene ID 129807

Other Names

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

Target/Specificity

This NEU4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 423-452 amino acids from the C-terminal region of human NEU4.

Dilution

IHC-P~~1:50~100

WB~~1:1000

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

NEU4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NEU4 Antibody (C-term) - Protein Information

Name NEU4

Function Exo-alpha-sialidase that catalyzes the hydrolytic cleavage of the terminal sialic acid (N-acetylneurameric 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:[15213228](#), PubMed:[15847605](#), PubMed:[21521691](#)). 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

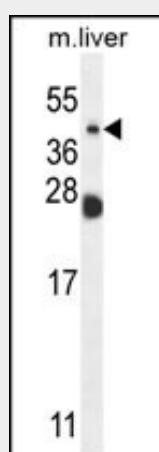
[Isoform 1]: Predominant form in liver. Also expressed in brain, kidney and colon.

NEU4 Antibody (C-term) - Protocols

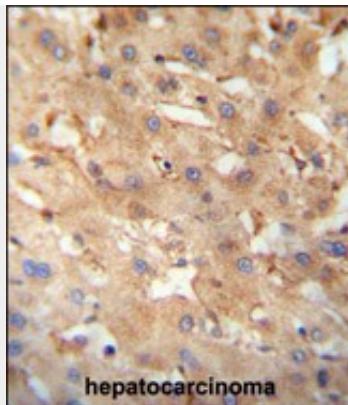
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NEU4 Antibody (C-term) - Images



NEU4 Antibody (C-term) (Cat. #AP10385b) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the NEU4 antibody detected the NEU4 protein (arrow).



NEU4 antibody (C-term) (Cat. #AP10385b) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NEU4 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

NEU4 Antibody (C-term) - 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) - 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)