

NEU1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20027c**Specification**

NEU1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O99519
Other Accession	A6BMK7 , NP_000425.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	45467
Antigen Region	188-214

NEU1 Antibody (Center) - Additional Information**Gene ID** 4758**Other Names**Sialidase-1, Acetylneuraminyl hydrolase, G9 sialidase, Lysosomal sialidase,
N-acetyl-alpha-neuraminidase 1, NEU1, NANH**Target/Specificity**

This NEU1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-214 amino acids from the Central region of human NEU1.

Dilution

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

NEU1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NEU1 Antibody (Center) - Protein Information**Name** NEU1

Synonyms NANH

Function Catalyzes the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins and glycolipids. To be active, it is strictly dependent on its presence in the multienzyme complex. Appears to have a preference for alpha 2-3 and alpha 2-6 sialyl linkage.

Cellular Location

Lysosome membrane; Peripheral membrane protein; Luminal side. Lysosome lumen. Cell membrane. Cytoplasmic vesicle Lysosome. Note=Localized not only on the inner side of the lysosomal membrane and in the lysosomal lumen, but also on the plasma membrane and in intracellular vesicles

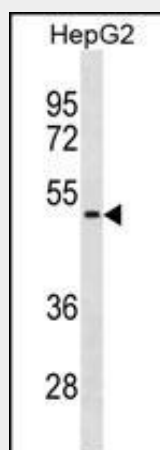
Tissue Location

Highly expressed in pancreas, followed by skeletal muscle, kidney, placenta, heart, lung and liver. Weakly expressed in brain.

NEU1 Antibody (Center) - 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](#)

NEU1 Antibody (Center) - Images

NEU1 Antibody (Center) (Cat. #AP20027c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the NEU1 antibody detected the NEU1 protein (arrow).

NEU1 Antibody (Center) - Background

The protein encoded by this gene is a lysosomal enzyme that cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and

cathepsin A (the latter is also referred to as 'protective protein'). Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity.

NEU1 Antibody (Center) - References

Caciotti, A., et al. J. Neurol. 256(11):1911-1915(2009)
Bonten, E.J., et al. J. Biol. Chem. 284(41):28430-28441(2009)
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :
Wang, J., et al. J. Neurochem. 111(2):547-554(2009)
Lai, S.C., et al. Eur. J. Neurol. 16(8):912-919(2009)