

NEU4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58785

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8WWR8
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51572

Additional Information

Gene ID	129807
Other Names	Sialidase-4, 3.2.1.18, N-acetyl-alpha-neuraminidase 4, NEU4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NEU4 (HGNC:21328)
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: 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.

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