

NEU4 Rabbit pAb

CatalogNo: YN6041

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

MW

- 53kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human NEU4

Specificity

This antibody detects endogenous levels of NEU4 at Human, Mouse

| Target Information

Gene name

NEU4 LP5125

Protein Name	Sialidase-4 (N-acetyl-alpha-neuraminidase 4)		
	Organism	Gene ID	UniProt ID
	Human	129807 ;	Q8WWR8 ;
	Mouse	241159 ;	Q8BZL1 ;
Cellular Localization	[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 . Predominantly associates with endoplasmic reticulum membranes. Only a small fraction associates with mitochondrial and plasma membranes. . ; [Isoform 2]: Mitochondrion inner membrane ; Peripheral membrane protein. Mitochondrion outer membrane ; Peripheral membrane protein. Lysosome lumen . According to PubMed:15213228, isoform 2 is soluble, N-glycosylated and found in the lumen of lysosomes. However, no signal sequence nor N-glycosylation site is predicted from the sequence.		
Tissue specificity	[Isoform 1]: Predominant form in liver. Also expressed in brain, kidney and colon. ; [Isoform 2]: Highly expressed in brain and at lower levels in kidney and liver.		
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 . 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 . Has sialidase activity toward mucin, fetuin and sialyllactose .		

Validation Data

Contact information

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