



## NEU4 Rabbit pAb

|                                    |  |
|------------------------------------|--|
| <b>Catalog No</b>                  | YP-Ab-19371  |
| <b>Isotype</b>                     | IgG  |
| <b>Reactivity</b>                  | Human,Mouse  |
| <b>Applications</b>                | WB   |
| <b>Gene Name</b>                   | NEU4 LP5125  |
| <b>Protein Name</b>                | Sialidase-4 (N-acetyl-alpha-neuraminidase 4)   |
| <b>Immunogen</b>                   | Synthesized peptide derived from human NEU4. AA range:168-268  |
| <b>Specificity</b>                 | This antibody detects endogenous levels of NEU4 at Human, Mouse  |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG   |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Dilution</b>                    | WB 1:500-2000  |
| <b>Concentration</b>               | 1 mg/ml  |
| <b>Purity</b>                      | ≥90%   |
| <b>Storage Stability</b>           | -20°C/1 year   |
| <b>Synonyms</b>                    |  |
| <b>Observed Band</b>               |  |
| <b>Calculated Molecular Weight</b> | 53kD   |
| <b>Cell Pathway</b>                | [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. |
| <b>Tissue Specificity</b>          | [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.   |
| <b>Function</b>                    | 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 .

## Background

### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images