NEU4 Mouse mAb

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

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