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NEU2 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant NEU2.
Catalog # AT3022a

Product Information

Application	WB, E
Primary Accession	Q9Y3R4
Other Accession	NM_005383
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Lambda
Clone Names	2E6
Calculated MW	42254

Additional Information

Gene ID	4759
Other Names	Sialidase-2, Cytosolic sialidase, N-acetyl-alpha-neuraminidase 2, NEU2
Target/Specificity	NEU2 (NP_005374, 180 a.a. ~ 268 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NEU2 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

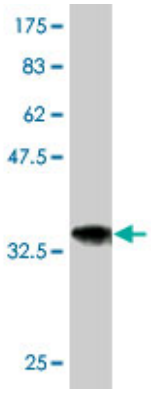
This gene belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. Expression studies in COS7 cells confirmed that this gene encodes a functional sialidase. Its cytosolic localization was demonstrated by cell fractionation experiments.

References

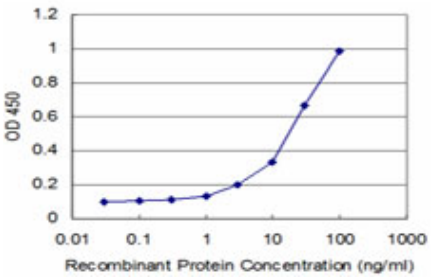
Defective myogenic differentiation of human rhabdomyosarcoma cells is characterized by sialidase Neu2 loss of expression. Stoppani E, et al. Cell Biol Int, 2009 Sep. PMID 19524683.A nonsynonymous SNP in human cytosolic sialidase in a small Asian population results in reduced enzyme activity: potential link with severe adverse reactions to oseltamivir. Li CY, et al. Cell Res, 2007 Apr. PMID 17426694.Crystal structure of

the human cytosolic sialidase Neu2. Evidence for the dynamic nature of substrate recognition. Chavas LM, et al. J Biol Chem, 2005 Jan 7. PMID 15501818.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Neu4, a novel human lysosomal lumen sialidase, confers normal phenotype to sialidosis and galactosialidosis cells. Seyrantepe V, et al. J Biol Chem, 2004 Aug 27. PMID 15213228.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



Detection limit for recombinant GST tagged NEU2 is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.