10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NEU2 Antibody (monoclonal) (M04)

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

Specification

NEU2 Antibody (monoclonal) (M04) - Product Information

Application	**WB, E**
Primary Accession	Q9Y3R4
Other Accession	NM_005383
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Lambda**
Calculated MW	**42254**

NEU2 Antibody (monoclonal) (M04) - 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.

NEU2 Antibody (monoclonal) (M04) - Protocols

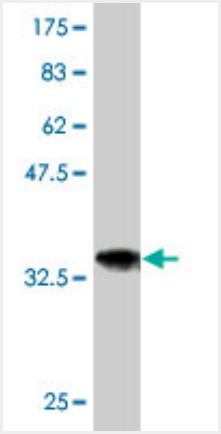
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

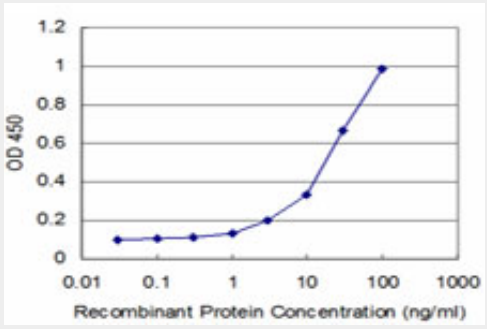
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NEU2 Antibody (monoclonal) (M04) - 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.

NEU2 Antibody (monoclonal) (M04) - 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.

NEU2 Antibody (monoclonal) (M04) - 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.