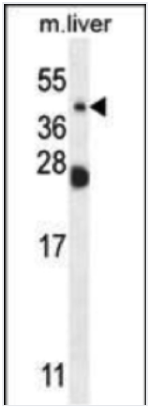
NEU4 Antibody – Rabbit Polyclonal

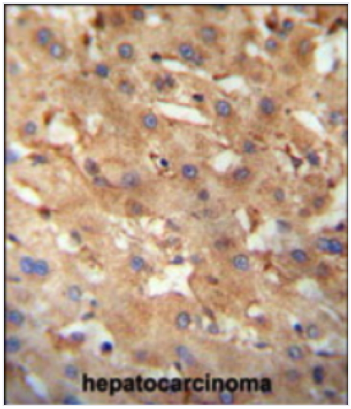
PRODUCT OVERVIEW

Product Name	NEU4, Polyclonal Antibody
Full Product Name	NEU4, CT (NEU4, Sialidase-4, N-acetyl-alpha-neuraminidase 4) (MaxLight 405)
Product Gene Name	anti-NEU4 antibody
Product Synonym Names	NEU4; Sialidase-4; N-acetyl-alpha-neuraminidase 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NEU4. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,066 Da
OMIM	608527
3D Structure	ModBase 3D Structure for Q8WWR8
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 423-452 in the C-terminal region of human NEU4, UniProt Accession #Q8WWR8.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-NEU4 antibody	Antibodies; Enzymes; Glycosidase
Applications Tested/Suitable for anti-NEU4 antibody	Western Blot (WB), Immunohistochemistry (IHC), FLISA
Application Notes for anti-NEU4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NEU4 antibody	The protein encoded by this gene belongs to a family of glycohydrolytic enzymes, which remove terminal sialic acid residues from various sialo derivatives, such as glycoproteins, glycolipids, oligosaccharides, and gangliosides. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Product References and Citations for anti-NEU4 antibody	1. Bigi, A., et al. Glycobiology 20(2):148-157(2010). 2. Xin, X., et al. Genome Res. 19(7):1262-1269(2009). 3. Miyagi, T., et al. Proteomics 8(16):3303-3311(2008). 4. Stamatos, N.M., et al. FEBS J. 272(10):2545-2556(2005). 5. Hillier, L.W., et al. Nature 434(7034):724-731 (2005).
Other Notes	Small volumes of anti-NEU4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NEU4 purchase	MBS6324778 is an antibody targeting NEU4. Also known as NEU4, CT (NEU4, Sialidase-4, N-acetyl-alpha-neuraminidase 4) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-NEU4 antibody
Western Blot analysis in mouse liver tissue lysates (35ug/lane) usingMBS6009069. This demonstrates that MBS6009069 detected the NEU4 protein (arrow).



Immunohistochemistry (IHC) of anti-NEU4 antibody
Immunohistochemistry analysis of formalin fixed and paraffin embedded human hepatocarcinoma using MBS6009069 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6009069 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEU4. It may not necessarily be applicable to this product.

NCBI GI #	262527265
NCBI GeneID	129807
NCBI Accession #	NP_001161072.1
NCBI Related Accession #	NP_542779.2; NP_001161074.1; NP_001161071.1; NP_001161073.1
UniProt Primary Accession #	Q8WWR8
UniProt Secondary Accession #	Q96D64; A8K056; J3KNJ5
UniProt Related Accession #	Q8WWR8
GenBank Nucleotide #	NM_001167600.2
NCBI Official Full Name	sialidase-4 isoform 3
NCBI Official Synonym Full Names	neuraminidase 4
NCBI Official Symbol	NEU4
UniProt Protein Name	Sialidase-4
UniProt Synonym Protein Names	N-acetyl-alpha-neuraminidase 4
Protein Family	Sialidase
UniProt Gene Name	NEU4
UniProt Entry Name	NEUR4_HUMAN
NCBI Protein Information	sialidase-4

UniProt Comments for NEU4	NEU4: May function in lysosomal catabolism of sialylated glycoconjugates. Has sialidase activity towards synthetic substrates, such as 2'-(4-methylumbelliferyl)-alpha-D-N- acetylneuraminic acid (4-MU-NANA or 4MU-NeuAc). Has a broad substrate specificity being active on glycoproteins, oligosaccharides and sialylated glycolipids. Belongs to the glycosyl hydrolase 33 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - sphingolipid; EC 3.2.1.18; Hydrolase; Glycan Metabolism - other glycan degradation Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: lysosomal lumen; organelle inner membrane; mitochondrion; lysosome Molecular Function: protein binding; exo-alpha-sialidase activity Biological Process: oligosaccharide catabolic process; cellular protein metabolic process; sphingolipid metabolic process; dolichol-linked oligosaccharide biosynthetic process; ganglioside catabolic process; glycosphingolipid metabolic process; protein amino acid N-linked glycosylation via asparagine; glycoprotein catabolic process; post-translational protein modification
Research Articles on NEU4	**1.** The silencing or chemical inhibition of NEU4 changes the entire glycosylation pattern of proteins and lipids, making it more similar to that of differentiated GBM cells and drastically reduces GSCs survival.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/neu4/6324778