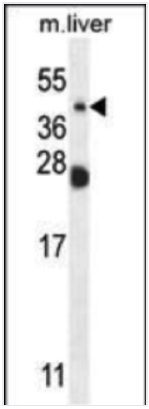
# NEU4 Antibody – Rabbit Polyclonal

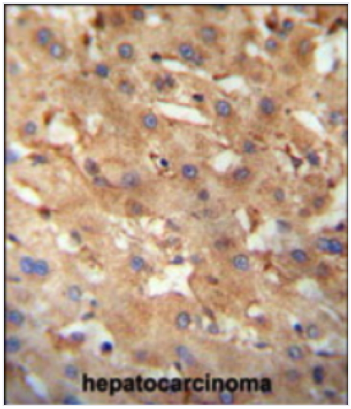
## PRODUCT OVERVIEW

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| **Product Name** | NEU4, Polyclonal Antibody |
| **Full Product Name** | NEU4, CT (NEU4, Sialidase-4, N-acetyl-alpha-neuraminidase 4) (MaxLight 650) |
| **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 MaxLight650. |
| **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: MaxLight650 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** | MaxLight650 |
| **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. |

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| **Searchable Terms for NEU4 purchase** | MBS6324781 is an antibody targeting NEU4. Also known as NEU4, CT (NEU4, Sialidase-4, N-acetyl-alpha-neuraminidase 4) (MaxLight 650). 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.

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| **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 |

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| **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.<br><br>Protein type: Lipid Metabolism - sphingolipid; EC 3.2.1.18; Hydrolase; Glycan Metabolism - other glycan degradation<br><br>Chromosomal Location of Human Ortholog: 2q37.3<br><br>Cellular Component: lysosomal lumen; organelle inner membrane; mitochondrion; lysosome<br><br>Molecular Function: protein binding; exo-alpha-sialidase activity<br><br>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. |
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