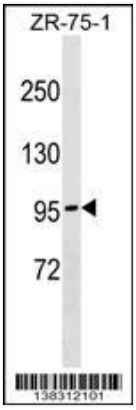
# NDST4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | NDST4, Polyclonal Antibody |
| **Full Product Name** | NDST4, NT (NDST4, HSST4, Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4, Glucosaminyl N-deacetylase/N-sulfotransferase 4, N-heparan sulfate sulfotransferase 4, Heparan sulfate N-deacetylase 4, Heparan sulfate N-sulfotransferase 4) (Biotin |
| **Product Gene Name** | anti-NDST4 antibody |
| **Product Synonym Names** | NDST4; HSST4; Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4; Glucosaminyl N-deacetylase/N-sulfotransferase 4; N-heparan sulfate sulfotransferase 4; Heparan sulfate N-deacetylase 4; Heparan sulfate N-sulfotransferase 4 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 100,716 Da |
| **OMIM** | 615039 |
| **3D Structure** | ModBase 3D Structure for Q9H3R1 |
| **Immunogen** | NDST4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-212 amino acids from the N-terminal region of human NDST4. |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-NDST4 antibody** | Antibodies; Enzymes; Sulfotransferase |
| **Applications Tested/Suitable for anti-NDST4 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-NDST4 antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-NDST4 antibody** | Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA dissacharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Has low deacetylase activity but high sulfotransferase activity (By similarity). |
| **Product References and Citations for anti-NDST4 antibody** | Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010). Treutlein, J., et al. Arch. Gen. Psychiatry 66(7):773-784(2009). Aikawa, J., et al. J. Biol. Chem. 276(8):5876-5882(2001). |

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| **Other Notes** | Small volumes of anti-NDST4 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 NDST4 purchase** | MBS6324322 is an antibody targeting NDST4. Also known as NDST4, NT (NDST4, HSST4, Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4, Glucosaminyl N-deacetylase/N-sulfotransferase 4, N-heparan sulfate sulfotransferase 4, Heparan sulfate N-deacetylase 4, Heparan sulfate N-sulfotransferase 4) (Biotin. Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-NDST4 antibody**
NDST4 Antibody (N-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the NDST4 antibody detected the NDST4 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDST4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 12007650 |
| **NCBI GeneID** | 64579 |
| **NCBI Accession #** | NP_072091.1 |
| **UniProt Primary Accession #** | Q9H3R1 |
| **UniProt Related Accession #** | Q9H3R1 |
| **GenBank Nucleotide #** | NM_022569.1 |
| **NCBI Official Full Name** | bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4 |
| **NCBI Official Synonym Full Names** | N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 4 |
| **NCBI Official Symbol** | NDST4 |
| **NCBI Official Synonym Symbols** | NDST-4; NHSST4 |
| **UniProt Protein Name** | Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4 |
| **UniProt Synonym Protein Names** | Glucosaminyl N-deacetylase/N-sulfotransferase 4; NDST-4; N-heparan sulfate sulfotransferase 4 |
| **Protein Family** | Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase |
| **UniProt Gene Name** | NDST4 |
| **UniProt Synonym Gene Names** | HSST4; NDST-4; N-HSST 4 |
| **UniProt Entry Name** | NDST4_HUMAN |
| **NCBI Protein Information** | bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4; N-HSST 4; N-heparan sulfate sulfotransferase 4; glucosaminyl N-deacetylase/N-sulfotransferase 4 |

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| **UniProt Comments for NDST4** | NDST4: Essential bifunctional enzyme that catalyzes both the N- deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Has low deacetylase activity but high sulfotransferase activity. Belongs to the sulfotransferase 1 family. NDST subfamily.<br><br>Protein type: EC 2.8.2.8; Glycan Metabolism - heparan sulfate biosynthesis; Hydrolase; Transferase; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 4q26<br><br>Cellular Component: Golgi membrane; integral to membrane<br><br>Molecular Function: deacetylase activity; [heparan sulfate]-glucosamine N-sulfotransferase activity<br><br>Biological Process: heparin biosynthetic process; heparan sulfate proteoglycan biosynthetic process |
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