NDST4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

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) (MaxLig
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 MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial 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	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-NDST4 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-NDST4 antibody	Western Blot (WB), FLISA
Application Notes for anti-NDST4 antibody	WB: 1:100-500 FLISA: 1:1,000 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).

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	MBS6324329 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) (MaxLig. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

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
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. Protein type: EC 2.8.2.8; Glycan Metabolism - heparan sulfate biosynthesis; Hydrolase; Transferase; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q26 Cellular Component: Golgi membrane; integral to membrane Molecular Function: deacetylase activity; [heparan sulfate]-glucosamine N-sulfotransferase activity Biological Process: heparin biosynthetic process; heparan sulfate proteoglycan biosynthetic process

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