Rabbit NDST1 Polyclonal Antibody | anti-NDST1 antibody

NDST1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289994	**Rabbit**	**React: Human Predicted Reactivity: Mouse, Rat**	**Immunohistochemistry, ELISA, Western Blot**

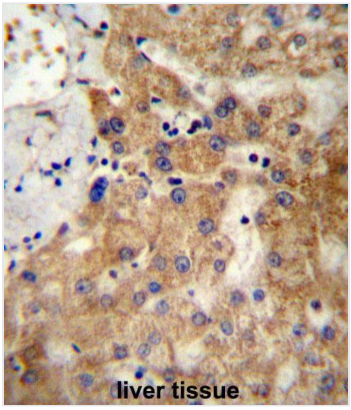
PRODUCT SYNONYMS

NDST1; Polyclonal Antibody; NDST1 Antibody (C-term); Bifunctional heparan sulfateN-deacetylase/N-sulfotransferase 1; GlucosaminylN-deacetylase/N-sulfotransferase 1; NDST-1; N-heparan sulfate sulfotransferase 1; N-HSST1; [Heparan sulfate]-glucosamineN-sulfotransferase 1; HSNST 1; Heparansulfate N-deacetylase 1; 3---; Heparan sulfateN-sulfotransferase 1; 282-; HSST; HSST1; anti-NDST1 antibody

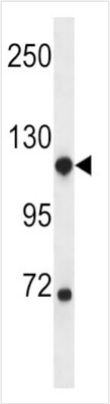
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	React: Human Predicted Reactivity: Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Number	RB33030
Specificity	This NDST1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 820-849 amino acids from the C-terminal region of human NDST1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	820-849
Sequence Length	556
Applicable Applications for anti-NDST1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein
Tissue Location	Widely expressed. Expression is most abundant in heart, liver and pancreas
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
NDST1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NDST1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
NDST1 Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the NDST1 antibody detected the NDST1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-NDST1 antibody	Essential bifunctional enzyme that catalyzesboth the N-deacetylation and the N-sulfationof glucosamine (GlcNAc) of theglycosaminoglycan in heparan sulfate.Modifies the GlcNAc-GlcA disaccharideerepeating sugar backbone to make N-sulfatedheparosan, a prerequisite substrate for latermodifications in heparin biosynthesis(PubMed:10758005, PubMed:12634318). Playsa role in determining the extent and patternof sulfation of heparan sulfate. Compared toother NDST enzymes, its presence isabsolutely required. Participates inbiosynthesis of heparan sulfate that canultimately serve as L-selectin ligands, therebyplaying a role in inflammatory response(PubMed:10758005, PubMed:12634318).Required for the exosomal release of SDCBP,CD63 and syndecan (PubMed:22660413). NDST1 is an 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 sugarbackbone to make N-sulfated heparosan, aprerequisite substrate for later modifications inheparin biosynthesis. Plays a role in determining the extent and pattern of sulfation of heparansulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates inbiosynthesis of heparan sulfate that canultimately serve as L-selectin ligands, there by playing a role in inflammatory response
Product Categories/Family for anti-NDST1 antibody	Cardiovascular; Immunology; Signal Transduction
References	Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010) Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010) Duelli, A., et al. J. Immunol. 183(11):7073-7083(2009) Zuberi, R.I., et al. J. Immunol. 183(6):3971-3979(2009) Drenos, F., et al. Hum. Mol. Genet. 18(12):2305-2316(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505351
NCBI GeneID	3340
NCBI Accession #	NP_001534.1
NCBI GenBank Nucleotide #	NM_001543.4
UniProt Accession #	P52848; Q96E57
Molecular Weight	100868
NCBI Official Full Name	bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1 isoform 1
NCBI Official Synonym Full Names	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1

NCBI Official Symbol	NDST1
NCBI Official Synonym Symbols	HSST; NST1; MRT46
NCBI Protein Information	bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1
UniProt Protein Name	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1
UniProt Gene Name	**NDST1**
UniProt Synonym Gene Names	HSST; HSST1; NDST-1; N-HSST 1; HSNST 1
UniProt Entry Name	NDST1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/ndst1-antibody-clone-rb33030-immunohistochemistry-western-blot-elisa/289994