

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

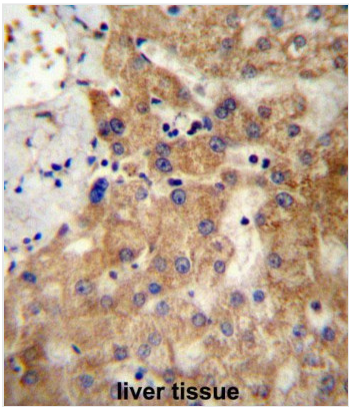
PRODUCT SYNONYMS

NDST1; Polyclonal Antibody; NDST1 Antibody (C-term); Bifunctional heparan sulfateN-deacetylase/N-sulfotransferase 1; GlucosaminyIN-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

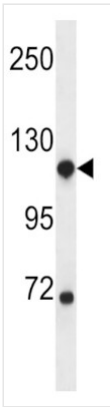
PRODUCT SPECIFICATIONS

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 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 (PubMed:10758005, PubMed:12634318). Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing 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 disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby 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://stage.aaabiotech.com/polyclonal/ndst1-antibody-clone-rb33030-immunohistochemistry-western-blot-elisa/289994>