

NDST1 Antibody

Catalog # ASC12107

Product Information

Application WB, E P52848 **Primary Accession** NP 001534 **Other Accession** Host Rabbit Clonality **Polyclonal** Isotype IgG **Clone Names** NDST1 **Calculated MW** 100868

Additional Information

Gene ID 3340 Alias Symbol NDST1

Other Names NDST1 Antibody: HSST, NST1, MRT46

Target/Specificity NDST1 Antibody is predicted to not cross-react with NDST2.

Reconstitution & Storage NDST1 antibody can be stored at 4°C for three months and -20°C, stable for

up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions NDST1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name NDST1 (HGNC:7680)

Synonyms HSST, HSST1

Function [Isoform 1]: Essential bifunctional enzyme that catalyzes both the

N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the

glycosaminoglycan in heparan sulfate (PubMed:35137078, PubMed:9230113, PubMed:9744796). Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis (PubMed:9230113). Plays a role in determining the extent and pattern of sulfation of heparan sulfate.

Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing a role in inflammatory response (By similarity). Required for the exosomal release of SDCBP, CD63 and syndecan

(PubMed: 22660413).

Cellular Location [Isoform 1]: Golgi apparatus, trans-Golgi network membrane; Single-pass type

II membrane protein. Golgi apparatus, cis-Golgi network membrane;

Single-pass type II membrane protein

Tissue Location Widely expressed. Expression is most abundant in heart, liver and pancreas.

Background

NDST1 is a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-sulfotransferase family. It is a type II transmembrane protein that resides in the Golgi apparatus. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.