

**NDST1 Antibody**  
Catalog # ASC12107**Specification****NDST1 Antibody - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | <b>WB, E</b>                |
| Primary Accession | <a href="#">P52848</a>      |
| Other Accession   | <a href="#">NP_001534</a>   |
| Host              | <b>Rabbit</b>               |
| Clonality         | <b>Polyclonal</b>           |
| Isotype           | <b>IgG</b>                  |
| Calculated MW     | <b>Predicted: 97 kDa</b>    |
|                   | <b>Observed: 97 kDa KDa</b> |

**NDST1 Antibody - Additional Information**

|                                   |              |
|-----------------------------------|--------------|
| Gene ID                           | <b>15531</b> |
| Alias Symbol                      | <b>NDST1</b> |
| <b>Other Names</b>                |              |
| 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.

**NDST1 Antibody - 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:<a href="http://www.uniprot.org/citations/35137078" target="\_blank">35137078</a>, PubMed:<a href="http://www.uniprot.org/citations/9230113" target="\_blank">9230113</a>, PubMed:<a href="http://www.uniprot.org/citations/9744796" target="\_blank">9744796</a>). Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/9230113" target="\_blank">9230113</a>). 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:<a href="http://www.uniprot.org/citations/22660413" target="\_blank">22660413</a>).

**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.

**NDST1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NDST1 Antibody - Images****NDST1 Antibody - 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.