

NDST3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17676b**Specification**

NDST3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O95803](#)**NDST3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9348**Other Names**

Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3, Glucosaminyl N-deacetylase/N-sulfotransferase 3, NDST-3, hNDST-3, N-heparan sulfate sulfotransferase 3, N-HSST 3, Heparan sulfate N-deacetylase 3, 3---, Heparan sulfate N-sulfotransferase 3, 282-, NDST3, HSST3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NDST3 Antibody (C-term) Blocking Peptide - Protein Information**Name** NDST3 ([HGNC:7682](#))**Synonyms** HSST3**Function**

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 high deacetylase activity but low sulfotransferase activity.

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

Expressed in brain, kidney, liver, fetal and adult lung, adult pancreas, placenta, fetal spleen and fetal thymus. Not detected in adult/ fetal heart and skeletal muscle

NDST3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NDST3 Antibody (C-term) Blocking Peptide - Images

NDST3 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the heparan sulfate/heparinGlcNAc N-deacetylase/N-sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides in the Golgi apparatus. This monomeric bifunctional enzyme catalyzes the N-deacetylation and N-sulfation of N-acetylglucosamine residues in heparan sulfate and heparin, which are the initial chemical modifications required for the biosynthesis of the functional oligosaccharide sequences that define the specific ligand binding activities of heparan sulfate and heparin.

NDST3 Antibody (C-term) Blocking Peptide - References

Feng, T., et al. Hum. Genet. 128(3):269-280(2010) 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) Krenn, E.C., et al. Biochem. Biophys. Res. Commun. 375(3):297-302(2008) Grobe, K., et al. Biochim. Biophys. Acta 1573(3):209-215(2002)