

NDST3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17676B

Specification

NDST3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O95803
Other Accession	O9EQH7 , NP_004775.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	100902
Antigen Region	809-836

NDST3 Antibody (C-term) - 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

Target/Specificity

This NDST3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 809-836 amino acids from the C-terminal region of human NDST3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

Precautions

NDST3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NDST3 Antibody (C-term) - 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

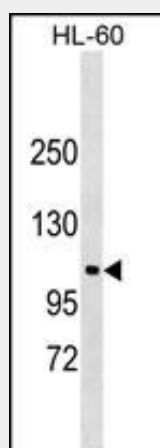
Expressed in brain, kidney, liver, fetal and adult lung, adult pancreas, placenta, fetal spleen and fetal thymus. Not detected in adult/ fetal heart and skeletal muscle

NDST3 Antibody (C-term) - 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](#)

NDST3 Antibody (C-term) - Images



NDST3 Antibody (C-term) (Cat. #AP17676b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the NDST3 antibody detected the NDST3 protein (arrow).

NDST3 Antibody (C-term) - Background

This gene encodes a member of the heparan sulfate/heparin GlcNAc 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) - 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)