

NDST2 Rabbit pAb

Catalog # AP97499

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P52849
Other Accession	P52849
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100875
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NDST2
Epitope Specificity	1-100/883
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the sulfotransferase 1 family. NDST subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the N-deacetylase/N-sulfotransferase subfamily of the sulfotransferase 1 proteins. The encoded enzyme has dual functions in processing glucosamine and heparin polymers, including N-deacetylation and N-sulfation. The encoded protein may be localized to the Golgi. [provided by RefSeq, Feb 2009]

Additional Information

Gene ID	8509
Other Names	HSST2; N-HSST 2; NST2; Mndns; NDST-2; ndst2; NDST2_BOVIN; CCL44; Glucosaminyl N-deacetylase/N-sulfotransferase 2 (NDST-2); 2.8.2.8; NDST2_HUMAN; N-heparan sulfate sulfotransferase 2 (N-HSST 2); NDST2_MOUSE; N-deacetylase and N-sulfotransferase 2; N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NDST2
-------------	-------

Synonyms	HSST2
Function	Essential bifunctional enzyme that catalyzes both the N- deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate (By similarity). Exhibits N- deacetylase activity (PubMed: 16343444). Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis (By similarity). Plays a role in determining the extent and pattern of sulfation of heparan sulfate (By similarity). Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed: 22660413). Essential for the biosynthesis of sulfated heparin in mast cells, thereby enabling proper secretory granule formation and storage of mast-cell proteases (By similarity).
Cellular Location	Golgi apparatus membrane {ECO:0000250 UniProtKB:Q02353}; Single-pass type II membrane protein

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