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NDST2 Rabbit pAb

Catalog # AP97499

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P52849
Other Accession	P52849
Predicted	Rat, Pig, Cat, Human, Mouse, Rabbit, Dog, Horse
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=1:5000-10000
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'.