NDST1 Mouse mAb

Catalog No	YP-mAb-18641
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NDST1 HSST HSST1
Immunogen	Synthesized peptide derived from human NDST1
Specificity	This antibody detects endogenous levels of NDST1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HSST;NST1;MRT46;NDST1;NDST1 HSST HSST1;Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1 (Glucosaminyl N-deacetylase/N-sulfotransferase 1) (NDST-1) (N-heparan sulfate sulfotransferase 1) (N-HSST 1) ([Heparan sulfate]-glucosamine N-sulfotransferase 1) (HSNST 1) [Includes: Heparan sulfate N-deacetylase 1 (EC 3.-.-.-);Heparan sulfate N-sulfotransferase 1 (EC 2.8.2.-)]
Observed Band	101kDa
Calculated Molecular Weight	101kDa
Cell Pathway	[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 .; [Isoform 3]: Golgi apparatus, cis-Golgi network membrane ; Single-pass type II membrane protein .
Tissue Specificity	Widely expressed. Expression is most abundant in heart, liver and pancreas.
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 . Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis . 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 . ; [Isoform 3]: Lacks both N-deacetylase and N-sulfotransferase activities. Acts as a dominant negative on isoform 1, likely by changing the composition of enzyme complexes responsible for elongation and modification of heparan sulfates.
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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