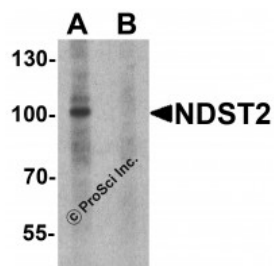


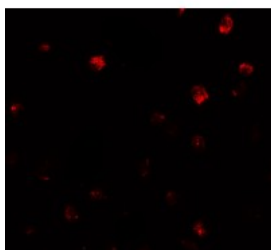


## NDST2 Antibody

CATALOG NUMBER: 7869



Western blot analysis of NDST2 in A-20 cell lysate with NDST2 antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of NDST2 in Daudi cells with NDST2 antibody at 20 ug/ml.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat
<b>HOMOLOGY:</b>	Predicted species reactivity based on immunogen sequence: Bovine: (100%)
<b>TESTED APPLICATIONS:</b>	ELISA, IF, WB
<b>APPLICATIONS:</b>	NDST2 antibody can be used for detection of PDCL by Western blot at 1 - 2 ug/ml. For immunofluorescence start at 20 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1288 - A-20 Cell Lysate
<b>PREDICTED MOLECULAR WEIGHT:</b>	Predicted: 97 kDa Observed: 101 kDa
<b>SPECIFICITY:</b>	NDST2 antibody is human, mouse and rat reactive. At least two isoforms of NDST2 are known to exist; this antibody will only detect the larger isoform. NDST2 antibody is predicted not to cross-react with other members of the NDST protein family.
<b>IMMUNOGEN:</b>	NDST2 antibody was raised against a 16 amino acid peptide near the amino terminus of human NDST2.  The immunogen is located within amino acids 20 - 70 of NDST2.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	NDST2 antibody is affinity chromatography purified via peptide column.
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	NDST2 antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	NDST2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG

<b>CONJUGATE:</b>	Unconjugated
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#### Additional Info

<b>ALTERNATE NAMES:</b>	NDST2 Antibody: NST2, HSST2, N-heparan sulfate sulfotransferase 2, NDST-2
<b>ACCESSION NO.:</b>	NP_003626
<b>PROTEIN GI NO.:</b>	4505353
<b>OFFICIAL SYMBOL:</b>	NDST2
<b>GENE ID:</b>	8509

#### Background

<b>BACKGROUND:</b>	The N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 (NDST2) protein, also known as N-heparan sulfate sulfotransferase 2, and the highly related protein NDST1 have key roles in the sulfation of heparan sulfate proteoglycans, molecules that are present of cell surfaces and the extracellular matrix (1,2). NDST1 and NDST2 are dispensable for mesodermal differentiation into osteoblasts but necessary for induction of adipocytes and neural cells (3).
<b>REFERENCES:</b>	1) Humphries DE, Lanciotti J, and Karlinsky JB. cDNA cloning, genomic organization and chromosomal localization of human heparan glucosaminyl N-deacetylase/N-sulphotransferase-2. <i>Biochem. J.</i> 1998; 332:303-7.
	2) Esko JD and Selleck SB. Order out of chaos. Assembly of ligand binding sites in heparan sulfate. <i>Annu. Rev. Biochem.</i> 2002; 71:435-71.
	3) Forsberg M, Holmborn K, Kundu S, et al. Undersulfation of heparan sulfate restricts differentiation potential of mouse embryonic stem cells. <i>J. Biol. Chem.</i> 2012; 287:10853-62.

**FOR RESEARCH USE ONLY**

December 13, 2016