

Rabbit anti-Human NDST4 Polyclonal Antibody | anti-NDST4 antibody

Anti-NDST4 Antibody Picoband

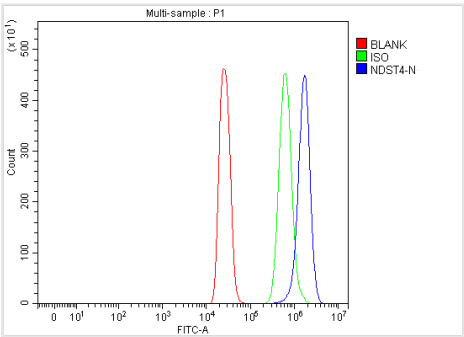
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127730	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NDST4; Polyclonal Antibody; Anti-NDST4 Antibody Picoband; eva-1 homolog A; regulator of programmed cell death; Protein eva-1 homolog A; Protein FAM176A; Transmembrane protein 166; EVA1A; FAM176A; TMEM166; SP24; anti-NDST4 antibody

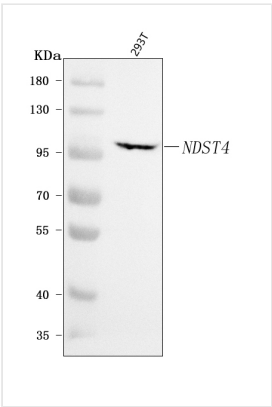
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in lung, kidney, liver, pancreas, placenta, but not in heart and skeletal muscle.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NDST4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NDST4 recombinant protein (Position: Q39-L260).
Subcellular Localization	Endoplasmic reticulum membrane, Single-pass membrane protein, Lysosome membrane
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Acts as a regulator of programmed cell death, mediating both autophagy and apoptosis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-NDST4 antibody (AAA127730).Overlay histogram showing 293T cells stained with AAA127730 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NDST4 Antibody (AAA127730, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of NDST4 using anti-NDST4 antibody (AAA127730).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NDST4 antigen affinity purified polyclonal antibody (#AAA127730) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NDST4 at approximately 101 kDa. The expected band size for NDST4 is at 101 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDST4 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NDST4 antibody	Primary Antibodies; Cell Biology; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin E3 Enzymes
References	1. Aikawa, J., Grobe, K., Tsujimoto, M., Esko, J. D. Multiple isozymes of heparan sulfate/heparin GlcNAc N-deacetylase/GlcN N-sulfotransferase: structure and activity of the fourth member, NDST4. J. Biol. Chem. 276: 5876-5882, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	86577748
NCBI GeneID	64579
UniProt Accession #	Q9H3R1
Molecular Weight	100,716 Da
NCBI Official Full Name	NDST4 protein
NCBI Official Synonym Full Names	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 4
NCBI Official Symbol	NDST4
NCBI Official Synonym Symbols	NDST-4; NHSST4
NCBI Protein Information	bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4; N-HSST 4; N-heparan sulfate sulfotransferase 4; glucosaminyl N-deacetylase/N-sulfotransferase 4
UniProt Protein Name	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 4

UniProt Gene Name	NDST4
UniProt Synonym Gene Names	HSST4; NDST-4; N-HSST 4
UniProt Entry Name	NDST4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ndst4-antibody-flow-cytometry-western-blot-elisa/127730>