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XYLT1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12779a

Specification

XYLT1 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q86Y38
Other Accession	Q9EPI1, Q811B1, NP_071449.1
Reactivity	**Human, Mouse, Rat**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**107569**
Antigen Region	**126-155**

XYLT1 Antibody (N-term) - Additional Information

Gene ID 64131

Other Names
Xylosyltransferase 1, Peptide O-xylosyltransferase 1, Xylosyltransferase I, XT-I, XylT-I, XYLT1, XT1

Target/Specificity
This XYLT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-155 amino acids from the N-terminal region of human XYLT1.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
XYLT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

XYLT1 Antibody (N-term) - Protein Information

Name XYLT1

Synonyms XT1

Function Catalyzes the first step in the biosynthesis of chondroitin sulfate and dermatan sulfate proteoglycans, such as DCN. Transfers D- xylose from UDP-D-xylose to specific serine residues of the core protein (PubMed:15461586, PubMed:17189265, PubMed:24581741, PubMed:23982343). Required for normal embryonic and postnatal skeleton development, especially of the long bones (PubMed:24581741, PubMed:23982343). Required for normal maturation of chondrocytes during bone development, and normal onset of ossification (By similarity).

Cellular Location
Golgi apparatus membrane; Single-pass type II membrane protein. Secreted Note=Detected predominantly in the Golgi apparatus

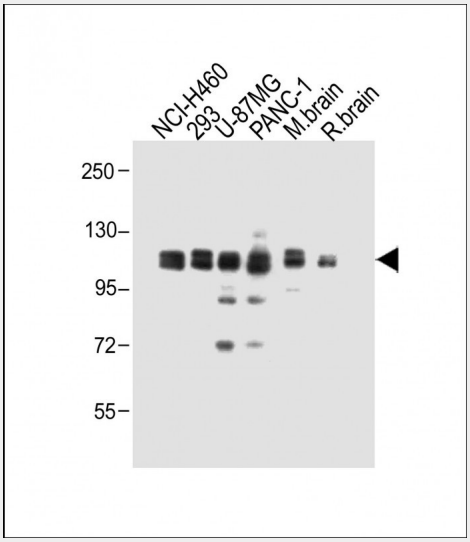
Tissue Location
Widely expressed. Expressed at higher level in placenta, kidney and pancreas. Weakly expressed in skeletal muscle

XYLT1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

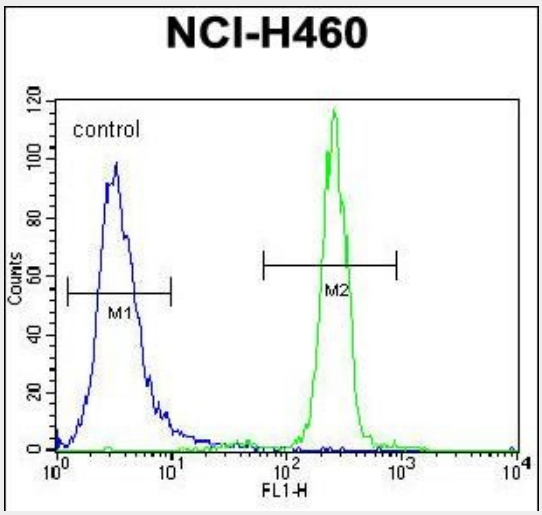
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

XYLT1 Antibody (N-term) - Images



All lanes : Anti-XYLT1 Antibody (N-term) at 1:1000 dilution Lane 1: NCI-H460 whole cell lysate Lane 2: 293 whole cell lysate Lane 3: U-87MG whole cell lysate Lane 4: PANC-1 whole cell lysate Lane 5: Mouse brain whole cell lysate Lane 6: Rat brain whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 108 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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XYLT1 Antibody (N-term) (Cat. #AP12779a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

XYLT1 Antibody (N-term) - Background

This locus encodes a xylosyltransferase enzyme. The encoded protein catalyzes transfer of UDP-xylose to serine residues of an acceptor protein substrate. This transfer reaction is necessary for biosynthesis of glycosaminoglycan chains. Mutations in this gene have been associated with increased severity of pseudoxanthoma elasticum.

XYLT1 Antibody (N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Muller, B., et al. J. Biol. Chem. 284(45):30775-30782(2009)
Ponighaus, C., et al. Am. J. Hypertens. 22(4):432-436(2009)
Ambrosius, M., et al. Clin. Biochem. 42 (1-2), 1-4 (2009) :
Schon, S., et al. J. Med. Genet. 43(9):745-749(2006)