

XYLT1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12779a**Specification**

XYLT1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q86Y38](#)**XYLT1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 64131**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

XYLT1 Antibody (N-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

XYLT1 Antibody (N-term) Blocking peptide - Images**XYLT1 Antibody (N-term) Blocking peptide - 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) Blocking peptide - 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)