

EXT1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16833c**Specification**

EXT1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q16394](#)**EXT1 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 2131

Other Names

Exostosin-1, Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase, Multiple exostoses protein 1, Putative tumor suppressor protein EXT1, EXT1

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.

EXT1 Antibody (Center) Blocking Peptide - Protein InformationName EXT1 ([HGNC:3512](#))**Function**

Glycosyltransferase forming with EXT2 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (PubMed: [9620772](http://www.uniprot.org/citations/9620772), PubMed: [10639137](http://www.uniprot.org/citations/10639137), PubMed: [22660413](http://www.uniprot.org/citations/22660413), PubMed: [36402845](http://www.uniprot.org/citations/36402845), PubMed: [36593275](http://www.uniprot.org/citations/36593275)). Glycan backbone extension consists in the alternating transfer of (1->4)-beta-D-GlcA and (1->4)-alpha-D-GlcNAc residues from their respective UDP-sugar donors. Both EXT1 and EXT2 are required for the full activity of the polymerase since EXT1 bears the N-acetylglucosaminyl-proteoglycan 4- beta-glucuronosyltransferase activity within the complex while EXT2 carries the glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase activity (PubMed: [36402845](http://www.uniprot.org/citations/36402845), PubMed: [36593275](http://www.uniprot.org/citations/36593275)). Heparan sulfate proteoglycans are ubiquitous components of the extracellular matrix and play an important

role in tissue homeostasis and signaling (PubMed:9620772, PubMed:10639137, PubMed:22660413, PubMed:11391482).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Golgi apparatus, cis-Golgi network membrane; Single-pass type II membrane protein. Endoplasmic reticulum membrane; Single-pass type II membrane protein. Note=The active heparan sulfate polymerase complex composed of EXT1 and EXT2 is localized to the Golgi apparatus. If both proteins are individually detected in the endoplasmic reticulum, the formation of the complex promotes their transport to the Golgi.

Tissue Location

Widely expressed..

EXT1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

EXT1 Antibody (Center) Blocking Peptide - Images

EXT1 Antibody (Center) Blocking Peptide - Background

This gene encodes an endoplasmic reticulum-resident type II transmembrane glycosyltransferase involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type I form of multiple exostoses. [provided by RefSeq].

EXT1 Antibody (Center) Blocking Peptide - References

Zuntini, M., et al. Oncogene 29(26):3827-3834(2010) Wen, W., et al. Genet Test Mol Biomarkers 14(3):371-376(2010) Li, Y., et al. Pathology 42(1):91-93(2010) Baasanjav, S., et al. BMC Med. Genet. 11, 110 (2010) :Ludecke, H.J., et al. Genomics 40(2):351-354(1997)