

EXT2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9401c**Specification**

EXT2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q93063](#)**EXT2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2132**Other Names**

Exostosin-2, Glucuronosyl-N-acetylglucosaminyl-proteoglycan/N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase, Multiple exostoses protein 2, Putative tumor suppressor protein EXT2, EXT2

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.

EXT2 Antibody (Center) Blocking Peptide - Protein Information**Name** EXT2 ([HGNC:3513](#))**Function**

Glycosyltransferase forming with EXT1 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (PubMed:22660413, PubMed:36402845, PubMed: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, PubMed:36593275). Heparan sulfate proteoglycans are ubiquitous components of the extracellular matrix and play an important role in tissue homeostasis and signaling (PubMed:22660413, PubMed:19344451).

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. Secreted {ECO:0000250|UniProtKB:O77783}. 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..

EXT2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

EXT2 Antibody (Center) Blocking Peptide - Images**EXT2 Antibody (Center) Blocking Peptide - Background**

EXT2 encodes one of two glycosyltransferases involved in the chain elongation step of heparan sulfate biosynthesis.

EXT2 Antibody (Center) Blocking Peptide - References

Zhao, J., et al. Diabetes 59(3):751-755(2010) Li, Y., et al. Genet Test Mol Biomarkers 13(6):825-830(2009) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Heinritz, W., et al. Ann. Hum. Genet. 73 (PT 3), 283-291 (2009) Cornelis, M.C., et al. Ann. Intern. Med. 150(8):541-550(2009)