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CSGALNACT1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP4922c

Specification

CSGALNACT1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q8TDX6

CSGALNACT1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 55790

Other Names
Chondroitin sulfate N-acetylgalactosaminyltransferase 1, CsGalNAcT-1, Chondroitin beta-1, 4-N-acetylgalactosaminyltransferase 1, Beta4GalNAcT-1, CSGALNACT1, CHGN, GALNACT1

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.

CSGALNACT1 Antibody (Center) Blocking Peptide - Protein Information

Name CSGALNACT1 (HGNC:24290)

Synonyms CHGN, GALNACT1

Function
Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important role in chondroitin chain biosynthesis in cartilage formation and subsequent endochondral ossification (PubMed:11788602, PubMed:12163485, PubMed:12446672, PubMed:17145758, PubMed:31705726). Moreover, is involved in the metabolism of aggrecan (By similarity).

Cellular Location
Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein

Tissue Location

Ubiquitous, with the highest levels in placenta, thyroid, bladder, prostate and adrenal gland. Detected at low levels in the other tissues examined.

CSGALNACT1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CSGALNACT1 Antibody (Center) Blocking Peptide - Images

CSGALNACT1 Antibody (Center) Blocking Peptide - Background

CSGALNACT1 transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). CSGALNACT1 required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. CSGALNACT1 is important role in chondroitin chain biosynthesis in cartilage.

CSGALNACT1 Antibody (Center) Blocking Peptide - References

Landa, I., et al. PLoS Genet. 5 (9), E1000637 (2009) Sakai, K., et al. J. Biol. Chem. 282(6):4152-4161(2007)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)