

CSGALNACT1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4922c**Specification**

CSGALNACT1 Antibody (Center) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q8TDX6
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	61294
Antigen Region	192-220

CSGALNACT1 Antibody (Center) - 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

Target/Specificity

This CSGALNACT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-220 amino acids from the Central region of human CSGALNACT1.

Dilution

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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

CSGALNACT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CSGALNACT1 Antibody (Center) - 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

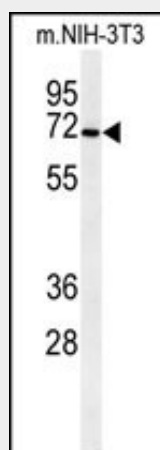
Tissue Location

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

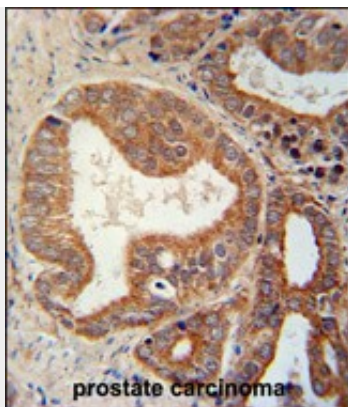
CSGALNACT1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CSGALNACT1 Antibody (Center) - Images

Western blot analysis of CSGALNACT1 Antibody (Center) (Cat. #AP4922c) in mouse NIH-3T3 cell line lysates (35ug/lane). CSGALNACT1 (arrow) was detected using the purified Pab.



CSGALNACT1 Antibody (Center) (Cat. #AP4922c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CSGALNACT1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CSGALNACT1 Antibody (Center) - 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) - 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)