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CSGALNACT1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4922c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8TDX6
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24418
Calculated MW	61294
Antigen Region	192-220

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	WB~~1:1000 IHC-P~~1:100~500 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.

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.

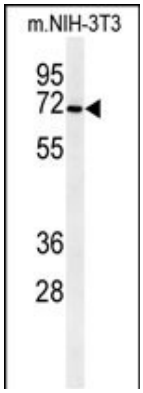
Background

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.

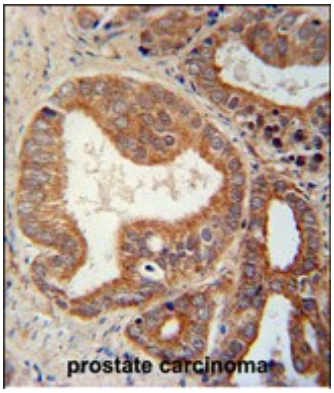
References

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)

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.