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Anti-CSGALNACT1 Antibody

Catalog # AP51118

Product Information

Application	WB, IHC
Primary Accession	Q8TDX6
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61294

Additional Information

Gene ID	55790
Other Names	CHGN; GALNACT1; Chondroitin sulfate N-acetylgalactosaminyltransferase 1; CsGalNAcT-1; Chondroitin beta-1, 4-N-acetylgalactosaminyltransferase 1; Beta4GalNAcT-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CSGALNACT1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

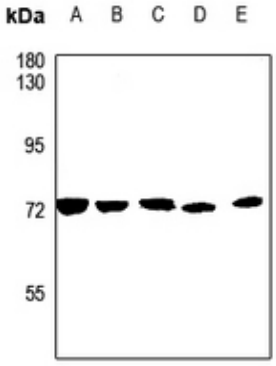
Name	CSGALNACT1 (HGNC:24290)
Synonyms	CHGN, GALNACT1
Function	Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important 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.

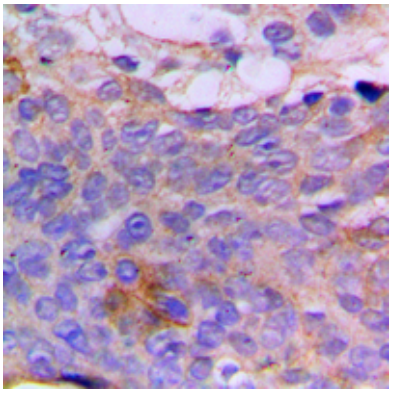
References

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Gotoh M.,et al.J. Biol. Chem. 277:38189-38196(2002).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).

Images



Western blot analysis of CSGALNACT1 expression in HEK293T (A), A549 (B), PC3 (C), PC12 (D), MEF (E) whole cell lysates. (Predicted band size: 61 kD; Observed band size: 70 kD)



Immunohistochemical analysis of CSGALNACT1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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