

Rabbit anti-Human, mouse CSGALNACT1 Polyclonal Antibody | anti-CSGALNACT1 antibody

CSGALNACT1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284238	Rabbit	Human, mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CSGALNACT1; Polyclonal Antibody; CSGALNACT1 Antibody (Center); Chondroitin sulfate N-acetylgalactosaminyltransferase 1; CsGalNAcT-1; Chondroitin beta-1; 4-N-acetylgalactosaminyltransferase 1; Beta4GalNAcT-1; CHGN; GALNACT1; anti-CSGALNACT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	192-220
Sequence Length	297
Applicable Applications for anti-CSGALNACT1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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). 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.
Preparation and Storage	Maintain refrigerated at 2-8°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
CSGALNACT1 Antibody (Center) 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.



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

ADDITIONAL INFORMATION

Related Product Information for anti-CSGALNACT1 antibody	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.
Product Categories/Family for anti-CSGALNACT1 antibody	Signal Transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	194473683
NCBI GeneID	55790
NCBI Accession #	NP_001123990.1; NP_060841.5
NCBI GenBank Nucleotide #	NM_001130518.1
UniProt Accession #	Q8TDX6; Q6P9G6; Q8IU9; Q9NSQ7; Q9NUM9; B2RBE4
Molecular Weight	Calculated MW: 61294
NCBI Official Full Name	chondroitin sulfate N-acetylgalactosaminyltransferase 1
NCBI Official Synonym Full Names	chondroitin sulfate N-acetylgalactosaminyltransferase 1
NCBI Official Symbol	CSGALNACT1
NCBI Official Synonym Symbols	ChGn; CSGalNAcT-1; beta4GalNAcT
NCBI Protein Information	chondroitin sulfate N-acetylgalactosaminyltransferase 1
UniProt Protein Name	Chondroitin sulfate N-acetylgalactosaminyltransferase 1
UniProt Gene Name	CSGALNACT1
UniProt Synonym Gene Names	CHGN; GALNACT1; CsGalNAcT-1; Beta4GalNAcT-1
UniProt Entry Name	CGAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.