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CHST8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12842c

Product Information

Application	WB, E
Primary Accession	Q9H2A9
Other Accession	NP_071912.2, NP_001121367.1, NP_001121368.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32581
Calculated MW	48834
Antigen Region	219-247

Additional Information

Gene ID	64377
Other Names	Carbohydrate sulfotransferase 8, 282-, GalNAc-4-O-sulfotransferase 1, GalNAc-4-ST1, GalNAc4ST-1, N-acetylgalactosamine-4-O-sulfotransferase 1, CHST8
Target/Specificity	This CHST8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 219-247 amino acids from the Central region of human CHST8.
Dilution	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	CHST8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHST8
Function	Catalyzes the transfer of sulfate to position 4 of non- reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans.

	Required for biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Only active against terminal GalNAcbeta1,GalNAcbeta. Not active toward chondroitin.
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein
Tissue Location	Predominantly expressed in pituitary gland. In brain, it is expressed in pituitary gland, cerebellum, medulla oblongata, pons, thalamus and spinal cord. Expressed in the epidermis Expressed at lower level in lung, spleen, adrenal gland, placenta, prostate, testis, mammary gland and trachea

Background

Sulfate groups in carbohydrates confer highly specific functions on glycoproteins, glycolipids, and proteoglycans and are critical for cell-cell interaction, signal transduction, and embryonic development. Sulfotransferases, such as CHST8, carry out sulfation of carbohydrates (Hiraoka et al., 2001 [PubMed 11445554]).

References

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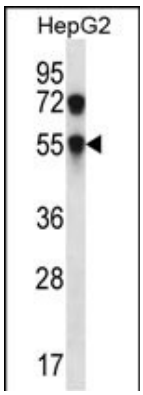
Thorleifsson, G., et al. Nat. Genet. 41(1):18-24(2009)
Boregowda, R.K., et al. Glycobiology 15(12):1349-1358(2005)
Barret, A., et al. J. Biol. Chem. 280(11):10516-10523(2005)

Images



CHST8 Antibody (Center) (Cat. #AP12842c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CHST8 antibody detected the CHST8 protein (arrow).