

CHST2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19294b

Product Information

Application	WB, E
Primary Accession	Q9Y4C5
Other Accession	Q80WV3 , NP_004258.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39794
Calculated MW	57857
Antigen Region	493-522

Additional Information

Gene ID	9435
Other Names	Carbohydrate sulfotransferase 2, 282-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2, GST-2, N-acetylglucosamine 6-O-sulfotransferase 1, GlcNAc6ST-1, Gn6ST-1, CHST2, GN6ST
Target/Specificity	This CHST2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 493-522 amino acids from the C-terminal region of human CHST2.
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	CHST2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHST2
Synonyms	GN6ST

Function	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within keratan-like structures on N-linked glycans and within mucin-associated glycans that can ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of the SELL ligand sialyl 6-sulfo Lewis X and in lymphocyte homing to Peyer patches. Has no activity toward O-linked sugars. Its substrate specificity may be influenced by its subcellular location. Sulfates GlcNAc residues at terminal, non-reducing ends of oligosaccharide chains.
Cellular Location	Golgi apparatus, trans-Golgi network membrane; Single-pass type II membrane protein
Tissue Location	Widely expressed. Highly expressed in bone marrow, peripheral blood leukocytes, spleen, brain, spinal cord, ovary and placenta. Expressed by high endothelial cells (HEVs) and leukocytes

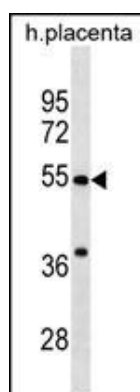
Background

N-acetylglucosamine-6-O-sulfotransferases, such as CHST2, catalyze the transfer of sulfate from 3-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) to position 6 of a nonreducing N-acetylglucosamine (GlcNAc) residue (Uchimura et al., 1998 [PubMed 9722682]).

References

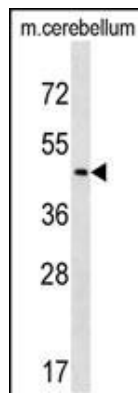
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 Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)
 Desko, M.M., et al. Glycobiology 19(10):1068-1077(2009)
 Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
 Kanoh, A., et al. Glycoconj. J. 23 (5-6), 453-460 (2006) :

Images



CHST2 Antibody (C-term)(Cat. #AP19294b) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the CHST2 antibody detected the CHST2 protein (arrow).

CHST2 Antibody (C-term) (Cat. #AP19294b) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the CHST2 antibody detected the CHST2 protein (arrow).



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