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CHST9 Rabbit pAb

Catalog # AP96743

Product Information

Application	WB
Primary Accession	Q7L1S5
Other Accession	Q7L1S5
Reactivity	Human
Predicted	Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52055
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHST9
Epitope Specificity	351-443/443
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the sulfotransferase 2 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Sulfate groups on carbohydrates confer highly specific functions to glycoproteins, glycolipids, and proteoglycans, and are critical for cell-cell interaction, signal transduction, and embryonic development. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Aug 2011]

Additional Information

Gene ID	83539
Other Names	GALNAC4ST-2; GalNAc4ST2; 5430438D01Rik; galNAc-4-ST2; CHST9_HUMAN; CHST9; GalNAc-4-O-sulfotransferase 2 (GalNAc-4-ST2 | GalNAc4ST-2); N-acetylgalactosamine-4-O-sulfotransferase 2; 2.8.2.-; CHST9_MOUSE; carbohydrate sulfotransferase 9; carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CHST9
Function	Catalyzes the transfer of sulfate from 3'-phosphoadenylyl sulfate (PAPS) to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans (PubMed:11139592, PubMed:11445554). Transfers sulfate to the C-4 hydroxyl of terminal beta-1,4-linked GalNAc in the sequence GalNAc-beta-1,4GlcNAcbeta-R found on N-linked oligosaccharides and to the nonterminal beta-1,4- linked GalNAc in chondroitin and dermatan (PubMed:11445554). Required for biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures (PubMed:11139592, PubMed:11445554).
Cellular Location	[Isoform 1]: Golgi apparatus membrane; Single-pass type II membrane protein
Tissue Location	Highly expressed in trachea. Also expressed in fetal lung, adult pancreas, testis and salivary gland. Expressed at low level in pituitary gland, apex of the heart, adult lung, prostate and mammary gland. Weakly or not expressed in heart, liver and spinal cord

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