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Anti-CHST9 Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11871

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q7L1S5
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52055

Additional Information

Gene ID	83539
Positive Control	WB: A549, HepG2 cell lysate; IHC: human testis tissue; IFC: HepG2 cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	CHST9
Other Names	Carbohydrate sulfotransferase 9, GalNAc-4-O-sulfotransferase 2, GalNAc-4-ST2, GalNAc4ST-2, N-acetylgalactosamine-4-O-sulfotransferase 2
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-CHST9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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).

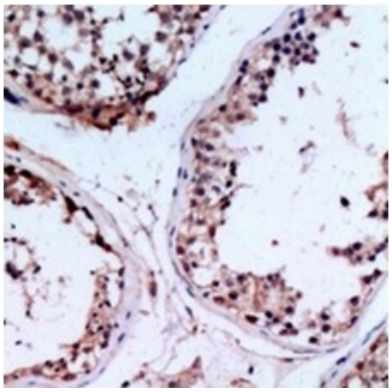
Cellular Location [Isoform 1]: Golgi apparatus membrane; Single-pass type II membrane protein

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

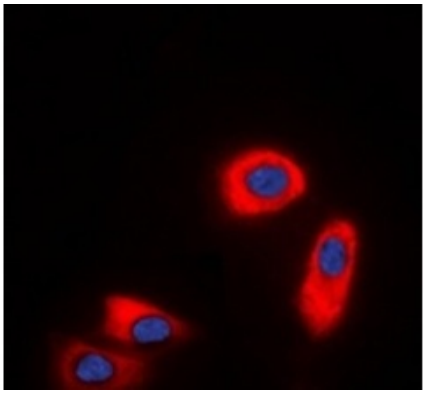
Background

Catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Participates in biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Has a higher activity toward carbonic anhydrase VI than toward lutropin. Only active against terminal GalNAcbeta1, GalNAcbeta. Isoform 2, but not isoform 1, is active toward chondroitin.

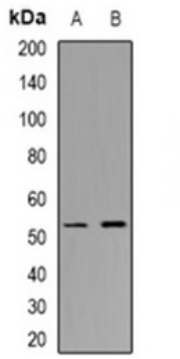
Images



Immunohistochemical analysis of CHST9 staining in H.testis formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of CHST9 staining in HepG2 cells.



Western blot analysis of CHST9 expression in A549(A); HepG2(B) whole cell lysates.

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