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CHST5 Rabbit pAb

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Catalog # AP55348

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9GZS9
Predicted	Rat, Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46161
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHST5
Epitope Specificity	21-120/411
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus membrane. Golgi membrane, early secretory pathway.
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 Gal/GalNAc/GlcNAc 6-O-sulfotransferase (GST) family, members of which catalyze the transfer of sulfate to position 6 of galactose (Gal), N-acetylgalactosamine (GalNAc), or N-acetylglucosamine (GlcNAc) residues within proteoglycans, and sulfation of O-linked sugars of mucin-type acceptors. Carbohydrate sulfation plays a critical role in many biologic processes. This gene is predominantly expressed in colon and small intestine. [provided by RefSeq, Aug 2011]

Additional Information

Gene ID	23563
Other Names	Carbohydrate sulfotransferase 5, 2.8.2.-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-alpha, GST4-alpha, Intestinal N-acetylglucosamine-6-O-sulfotransferase, I-GlcNAc6ST, Intestinal GlcNAc-6-sulfotransferase, hIGn6ST, N-acetylglucosamine 6-O-sulfotransferase 3, GlcNAc6ST-3, Gn6st-3, CHST5
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
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	CHST5
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 and O- linked sugars of mucin-type acceptors (PubMed:10491328, PubMed:12218059, PubMed:12626414, PubMed:30093410). Acts on the non- reducing terminal GlcNAc of short carbohydrate substrates (in vitro) (PubMed:12218059). Preferentially add sulfate onto core 2- based O- glycan structures, but does not act on extended core 1 structures (in vitro) (PubMed:30093410). Involved in sulfation of endothelial mucins such as GLYCAM1 (PubMed:10491328, PubMed:12855678). Has no activity toward keratan (PubMed:11278593). Not involved in generating HEV- expressed ligands for SELL (PubMed:12855678).
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein. Note=Golgi membrane, early secretory pathway.
Tissue Location	Predominantly expressed in small and large intestines and colon. Weakly expressed in lymphocytes. Not expressed in other tissues. Down-regulated in colonic adenocarcinomas

Background

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