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CHST2 Rabbit pAb

Catalog # AP97320

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y4C5
Other Accession	Q9Y4C5
Reactivity	Rat, Mouse
Predicted	Pig, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57857
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHST2
Epitope Specificity	21-120/530
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 1 family. Gal/GlcNAc/GalNAc subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This locus encodes a sulfotransferase protein. The encoded enzyme catalyzes the sulfation of a nonreducing N-acetylglucosamine residue, and may play a role in biosynthesis of 6-sulfosialyl Lewis X antigen. [provided by RefSeq, Aug 2011]

Additional Information

Gene ID	9435
Other Names	C6ST; GST-2; GST2; Gn6ST-1; HEL-S-75; glcNAc6ST-1; CHST2_HUMAN; CHST2; Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2 (GST-2); N-acetylglucosamine 6-O-sulfotransferase 1 (GlcNAc6ST-1 | Gn6ST-1); 2.8.2.-; GN6ST; carbohydrate sulfotransferase 2; carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2
Dilution	IHC-P=1:100-500,IHC-F=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	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- and O-linked glycans and within O-linked mucin-type glycans (PubMed:11042394, PubMed:11726653, PubMed:35939855, PubMed:38034954, PubMed:9722682). Selectively transfers the sulfate group onto the terminal GlcNAc of alpha1,3-Man or alpha1,6-Man antenna of complex-type N-glycans depending on glycan composition. Only sulfates terminal GlcNAc of alpha1,3-Man antenna of G0 complex-type N- glycans. Can sulfate keratan-type N-acetyllactosamine (LacNAc) repeats generating epitopes for self versus non-self immune recognition by C- type lectins (PubMed:35939855, PubMed:38034954). Transfers the sulfate group primarily on core 2 GlcNAcbeta1-6(Galbeta1-3)GalNAcalpha-Ser/Thr and with lower efficiency on extended core 1 GlcNAcbeta1-3Galbeta1- 3GalNAcalpha-Ser/Thr based O-linked glycans on peripheral node addressins (PNAds) expressed on the lumenal side of high endothelial venules (HEVs). Shares substrate specificity with CHST4 and both contribute to generate sialyl 6-sulfo Lewis X determinant (also known as MECA-79 epitope) for SELL recognition, a prerequisite for continuous lymphocyte homing into peripheral lymph nodes and antigen immune surveillance (By similarity) (PubMed:9722682). Has no activity toward alpha-linked GlcNAc moiety exposed at the non-reducing ends or to internally located GlcNAc residues (PubMed:11042394).
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

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