

**CHST5 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18949b**

**Specification**

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**CHST5 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9GZS9</a>
Other Accession	<a href="#">O9GZX3</a> , <a href="#">NP_078809.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46161
Antigen Region	275-302

**CHST5 Antibody (C-term) - Additional Information**

**Gene ID** 23563

**Other Names**

Carbohydrate sulfotransferase 5, 282-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-alpha, GST4-alpha, Intestinal N-acetylglucosamine-6-O-sulfotransferase, I-GlcNAc6ST, Intestinal GlcNAc-6-sulfotransferase, hGn6ST, N-acetylglucosamine 6-O-sulfotransferase 3, GlcNAc6ST-3, Gn6st-3, CHST5

**Target/Specificity**

This CHST5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-302 amino acids from the C-terminal region of human CHST5.

**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**

CHST5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CHST5 Antibody (C-term) - 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. Acts on the non-reducing terminal GlcNAc of short carbohydrate substrates. However, it does not transfer sulfate to longer carbohydrate substrates that have poly-N- acetylactosamine structures. Has no activity toward keratan. Not involved in generating HEV-expressed ligands for SELL. Its substrate specificity may be influenced by its subcellular location.

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein. Note=Golgi membrane, early secretory pathway

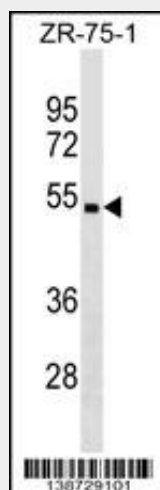
**Tissue Location**

Predominantly expressed in small and large intestines and colon. Weakly expressed in lymphocytes. Not expressed in other tissues. Down-regulated in colonic adenocarcinomas

**CHST5 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CHST5 Antibody (C-term) - Images**

CHST5 Antibody (C-term) (Cat. #AP18949b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the CHST5 antibody detected the CHST5 protein (arrow).

**CHST5 Antibody (C-term) - Background**

The carbohydrates of glycoconjugates are highly diverse

structures with variation in monosaccharide composition, glycosidic linkage positions, and branching of chains. Further diversity is added by the covalent addition of sulfate moieties to particular hydroxyl groups and amino groups of saccharides. The sulfate modifications of glycoproteins can be extensive in amount and frequently occur at high density. They can have a profound effect on the physiochemical properties of the glycoconjugates, at least in part through the addition of negative charge. Carbohydrate sulfation plays a critical role in many biologic processes. CHST5 belongs to the GST family of sulfotransferases, which also includes CHST1 (MIM 603797), CHST2 (MIM 603798), CHST3 (MIM 603799), and LSST. These enzymes are 6-O-sulfotransferases, which add sulfate to C6 of galactose (Gal), N-acetylgalactosamine (GalNAc), or N-acetylglucosamine (GlcNAc) (Lee et al., 1999 [PubMed 10491328]).

#### **CHST5 Antibody (C-term) - References**

Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)  
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Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)  
Kitayama, K., et al. J. Biol. Chem. 282(41):30085-30096(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)