

CHST4 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI10880**Specification**

CHST4 antibody - middle region - Product Information

Application	WB
Primary Accession	Q8NCG5
Other Accession	NM_005769 , NP_005760
Reactivity	Human, Rabbit, Horse, Bovine, Dog
Predicted	Human, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa KDa

CHST4 antibody - middle region - Additional Information**Gene ID** 10164**Alias Symbol** **GST3, LSST, GlcNAc6ST2, HECGLCNAC6ST****Other Names**

Carbohydrate sulfotransferase 4, 2.8.2.-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 3, GST-3, High endothelial cells N-acetylglucosamine 6-O-sulfotransferase, HEC-GlcNAc6ST, L-selectin ligand sulfotransferase, LSST, N-acetylglucosamine 6-O-sulfotransferase 2, GlcNAc6ST-2, Gn6st-2, CHST4

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CHST4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CHST4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

CHST4 antibody - middle region - Protein Information**Name** CHST4**Function**

Sulfotransferase involved in SELL/L-selectin ligand biosynthesis pathway. Catalyzes the transfer of the sulfate group from 3'-phospho-5'-adenylyl sulfate (PAPS) onto the hydroxyl group at C-6 position of the non-reducing N-acetylglucosamine (GlcNAc) residue within O-linked mucin-type glycans. Contributes 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 (PubMed:10330415, PubMed:11439191, PubMed:11726653, PubMed:12107080). Transfers the sulfate group primarily on core 2 GlcNAc β 1-6(Gal β 1- 3)GalNAc α Ser/Thr and extended core 1 GlcNAc β 1-3Gal β 1- 3GalNAc α Ser/Thr based O-linked glycans on CD34 and GLYCAM1 peripheral node addressins (PNAds) expressed on the luminal side of high endothelial venules (HEVs) (PubMed:11439191). The recognition of PNAds by SELL initiates a multistep process comprising tethering and rolling of blood lymphocytes on HEVs against the blood flow, followed by chemokine signaling, integrin-mediated lymphocyte adhesion onto endothelial cells and lymphocyte transendothelial migration. Modulates rolling velocity and differential T and B lymphocyte recruitment into peripheral lymph nodes, with a major role in B lymphocyte homing. Might be redundant in sulfation of MADCAM1 and lymphocyte trafficking to mesenteric lymph nodes (By similarity). Can also sulfonate core 3 GlcNAc β 1-3GalNAc-R based glycans as well as GlcNAc β 1-3Gal β 1- Glc, GlcNAc β 1-6ManOME and GlcNAc β 1-2Man oligosaccharides, which might be ectopically expressed during tumorigenesis (PubMed:11439191, PubMed:11726653, PubMed:12107080).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location

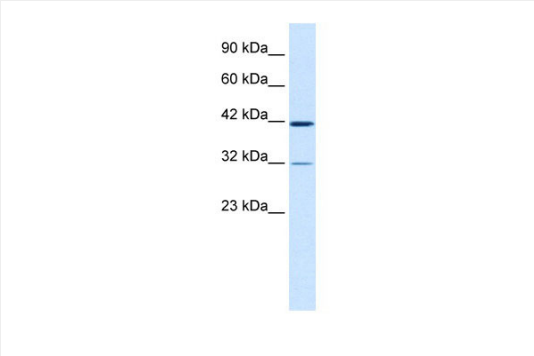
Specifically expressed in HEV. Weakly expressed in spleen. Not expressed in other tissues. Expressed in colonic mucinous adenocarcinoma.

CHST4 antibody - middle region - 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](#)

CHST4 antibody - middle region - Images



90 kDa
60 kDa
42 kDa
32 kDa
23 kDa

WB Suggested Anti-CHST4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: HepG2 cell lysate

CHST4 antibody - middle region - References

Akama, T.O., et al., (2002) J. Biol. Chem. 277 (45), 42505-42513
Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.