

CHST2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10704c**Specification**

CHST2 Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	O9Y4C5
Other Accession	O80WV3 , NP_004258.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57857
Antigen Region	309-335

CHST2 Antibody (Center) - Additional Information**Gene ID** 9435**Other Names**

Carbohydrate sulfotransferase 2, 282-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2, GST-2, N-acetylglucosamine 6-O-sulfotransferase 1, GlcNAc6ST-1, Gn6ST-1, CHST2, GN6ST

Target/Specificity

This CHST2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-335 amino acids from the Central region of human CHST2.

Dilution

WB~~1:1000
FC~~1:10~50

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

CHST2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CHST2 Antibody (Center) - 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-linked glycans and within mucin-associated glycans that can ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of the SELL ligand sialyl 6-sulfo Lewis X and in lymphocyte homing to Peyer patches. Has no activity toward O-linked sugars. Its substrate specificity may be influenced by its subcellular location. Sulfates GlcNAc residues at terminal, non-reducing ends of oligosaccharide chains.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Single-pass type II membrane protein

Tissue Location

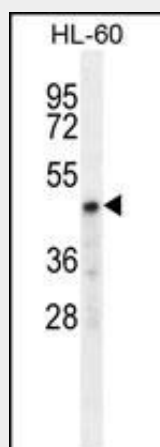
Widely expressed. Highly expressed in bone marrow, peripheral blood leukocytes, spleen, brain, spinal cord, ovary and placenta. Expressed by high endothelial cells (HEVs) and leukocytes

CHST2 Antibody (Center) - Protocols

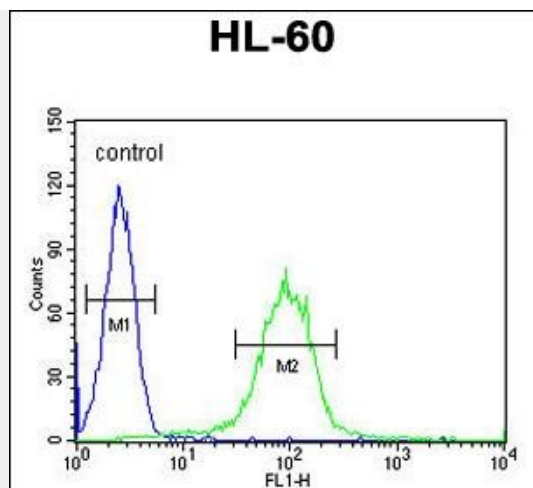
Provided below are standard protocols that you may find useful for product applications.

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

CHST2 Antibody (Center) - Images



CHST2 Antibody (Center) (Cat. #AP10704c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the CHST2 antibody detected the CHST2 protein (arrow).



CHST2 Antibody (Center) (Cat. #AP10704c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CHST2 Antibody (Center) - Background

N-acetylglucosamine-6-O-sulfotransferases, such as CHST2, catalyze the transfer of sulfate from 3-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) to position 6 of a nonreducing N-acetylglucosamine (GlcNAc) residue (Uchimura et al., 1998 [PubMed 9722682]).

CHST2 Antibody (Center) - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
 Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)
 Desko, M.M., et al. Glycobiology 19(10):1068-1077(2009)
 Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
 Kanoh, A., et al. Glycoconj. J. 23 (5-6), 453-460 (2006) :