

HS3ST2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9513B**Specification**

HS3ST2 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q9Y278
Other Accession	Q80W66 , Q673U1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41501
Antigen Region	317-346

HS3ST2 Antibody (C-term) - Additional Information**Gene ID** 9956**Other Names**

Heparan sulfate glucosamine 3-O-sulfotransferase 2, Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 2, 3-OST-2, Heparan sulfate 3-O-sulfotransferase 2, h3-OST-2, HS3ST2, 3OST2

Target/Specificity

This HS3ST2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-346 amino acids from the C-terminal region of human HS3ST2.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

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

HS3ST2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HS3ST2 Antibody (C-term) - Protein Information

Name HS3ST2

Synonyms 3OST2

Function Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to an N-unsubstituted glucosamine linked to a 2-O-sulfo iduronic acid unit on heparan sulfate (PubMed:[9988768](#)). Catalyzes the O-sulfation of glucosamine in GlcA2S- GlcNS (PubMed:[9988768](#)). Unlike HS3ST1/3-OST-1, does not convert non- anticoagulant heparan sulfate to anticoagulant heparan sulfate (PubMed:[9988768](#)).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

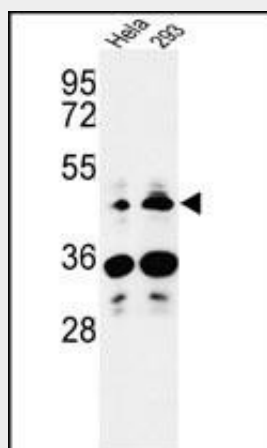
Highly expressed in the brain and weakly expressed in the heart, placenta, lung and skeletal muscle

HS3ST2 Antibody (C-term) - Protocols

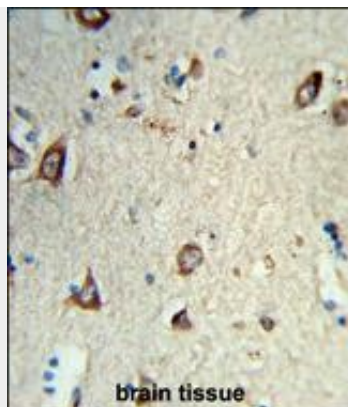
Provided below are standard protocols that you may find useful for product applications.

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

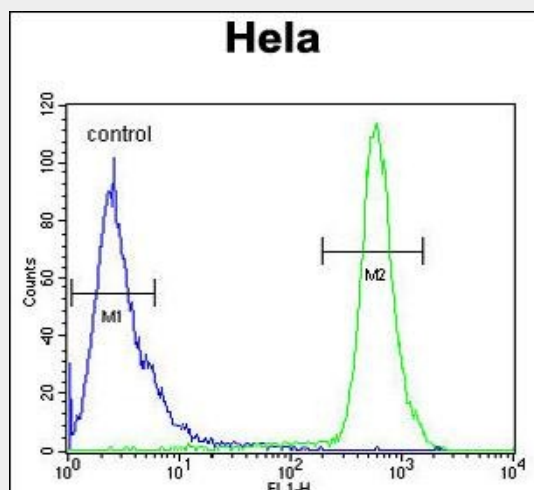
HS3ST2 Antibody (C-term) - Images



Western blot analysis of HS3ST2 Antibody (C-term) (Cat. #AP9513b) in HeLa, 293 cell line lysates (35ug/lane). HS3ST2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with HS3ST2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



HS3ST2 Antibody (C-term) (Cat. #AP9513b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

HS3ST2 Antibody (C-term) - Background

Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme is a member of the heparan sulfate biosynthetic enzyme family. It is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity.

HS3ST2 Antibody (C-term) - References

- Ikeda, M., et al. Biol. Psychiatry 67(3):263-269(2010)
- Nat. Genet. 41(7):824-828(2009)
- Mochizuki, H., et al. J. Biol. Chem. 283(45):31237-31245(2008)
- Lawrence, R., et al. Matrix Biol. 26(6):442-455(2007)
- O'Donnell, C.D., et al. Virology 346(2):452-459(2006)
- Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)