10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

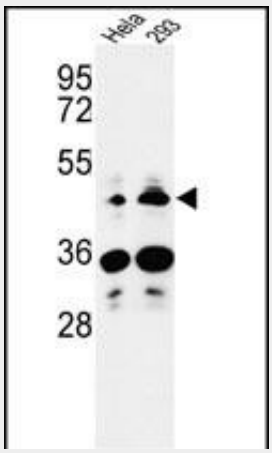
Tissue Location
Highly expressed in the brain and weakly expressed in the heart, placenta, lung and skeletal muscle

HS3ST2 Antibody (C-term) - Protocols

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

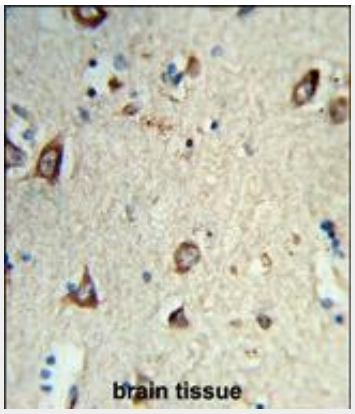
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HS3ST2 Antibody (C-term) - Images

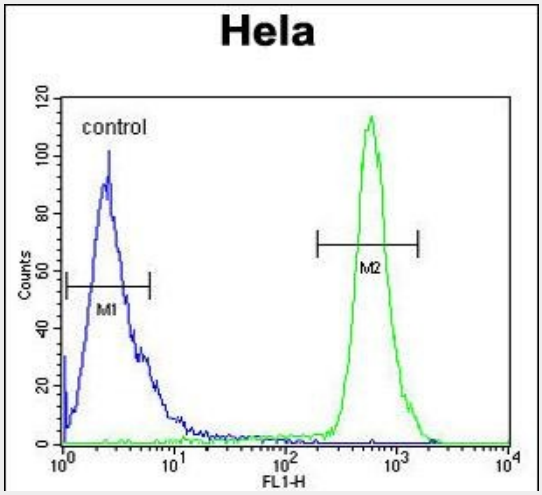


Western blot analysis of HS3ST2 Antibody (C-term) (Cat. #AP9513b) in Hela, 293 cell line lysates (35ug/lane). HS3ST2 (arrow) was detected using the purified Pab.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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)