

HS3ST1 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF4106a**Specification**

HS3ST1 Antibody (C-Term) - Product Information

Application	WB
Primary Accession	O14792
Other Accession	NP_005105.1 , 9957
Reactivity	Human
Predicted	Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	35773

HS3ST1 Antibody (C-Term) - Additional Information**Gene ID** 9957**Other Names**

Heparan sulfate glucosamine 3-O-sulfotransferase 1, 2.8.2.23, Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 1, 3-OST-1, Heparan sulfate 3-O-sulfotransferase 1, h3-OST-1, HS3ST1, 3OST, 3OST1

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HS3ST1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

HS3ST1 Antibody (C-Term) - Protein Information**Name** HS3ST1**Synonyms** 3OST, 3OST1**Function**

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan (PubMed:9346953, PubMed:8900198, PubMed:9988768). Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact) (PubMed:8900198, PubMed:9988768). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site (PubMed:8900198, PubMed:9988768).

Cellular Location

Golgi apparatus lumen.

Tissue Location

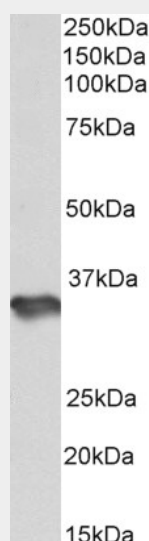
Highly expressed in the brain and kidney and weakly expressed in the heart, lung and placenta

HS3ST1 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](#)

HS3ST1 Antibody (C-Term) - Images



AF4106a (1 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

HS3ST1 Antibody (C-Term) - References

A conformational change in heparan sulfate 3-O-sulfotransferase-1 is induced by binding to

heparan sulfate. Edavettal SC, Carrick K, Shah RR, Pedersen LC, Tropsha A, Pope RM, Liu J.
Biochemistry 2004 Apr 43 (16): 4680-8. PMID: 15096036