

HS6ST1 Rabbit pAb

Catalog # AP96390

Product Information

Application	WB
Primary Accession	O60243
Other Accession	O60243
Reactivity	Rat, Mouse
Predicted	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48226
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HS6ST1
Epitope Specificity	185-260/411
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the sulfotransferase 6 family.
Post-translational modifications	N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Heparan sulfate structures, which are responsible for executing multiple biologic activities, are generated and regulated by heparan sulfate (HS) biosynthetic enzymes. HS6ST1 (heparan sulfate 6-O-sulfotransferase 1), also known as HS6ST, is a 411 amino acid single-pass type II membrane protein that exists as multiple alternatively spliced isoforms and belongs to the sulfotransferase 6 family. Expressed in fetal brain, HS6ST1 functions as a 6-O-sulfation enzyme that specifically catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to the N-sulfoglucosamine residue (GlcNS) HS. HS6ST1 is subject to post-translational N-glycosylation and is encoded by a functional gene on human chromosome 2 and a pseudogene on human chromosome 1 (known as LOC728969).

Additional Information

Gene ID	9394
Other Names	HH15; HS6ST; 6Ost1; H6ST1_HUMAN; HS6ST1; HS6ST-1; 2.8.2.-; H6ST1_MOUSE; mHS6ST-1; heparan sulfate 6-O-sulfotransferase 1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HS6ST1 (HGNC:5201)
Synonyms	HS6ST
Function	6-O-sulfation enzyme which catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to position 6 of the N-sulfoglucosamine residue (GlcNS) of heparan sulfate (PubMed: 9535912 , PubMed: 21700882). Critical for normal neuronal development where it may play a role in neuron branching (PubMed: 21700882). May also play a role in limb development (By similarity). May prefer iduronic acid (By similarity).
Cellular Location	Membrane; Single-pass type II membrane protein
Tissue Location	Expressed in fetal brain.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.