HS2ST1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HS2ST1, Polyclonal Antibody
Full Product Name	HS2ST1 Antibody, Biotin conjugated
Product Gene Name	anti-HS2ST1 antibody
Product Synonym Names	Heparan sulfate 2-O-sulfotransferase 1 (EC:2.8.2.-); 2-O-sulfotransferase; 2OST; HS2ST1; HS2ST; KIAA0448
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: HS2ST1 (MBS1491783) Biotin Conjugated Antibody: HS2ST1 (MBS1497377)
Molecular Weight	26,757 Da
OMIM	604844
3D Structure	ModBase 3D Structure for Q7LGA3
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Immunogen	Recombinant human Heparan sulfate 2-O-sulfotransferase 1 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-103549 / sc-130779 / sc-292203
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HS2ST1 antibody	ELISA (EIA)
Related Product Information for anti-HS2ST1 antibody	Catalyzes the transfer of sulfate to the C2-position of selected hexuronic acid residues within the maturing heparan sulfate (HS). 2-O-sulfation within HS, particularly of iduronate residues, is essential for HS to participate in a variety of high-affinity ligand-binding interactions and signaling processes. Mediates 2-O-sulfation of both L-iduronyl and D-glucuronyl residues (By similarity).
Other Notes	Small volumes of anti-HS2ST1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HS2ST1 purchase	MBS1497377 is an antibody targeting HS2ST1. Also known as HS2ST1 Antibody, Biotin conjugated. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HS2ST1. It may not necessarily be applicable to this product.

NCBI GI #	197382758

NCBI GeneID	9653
NCBI Accession #	NP_001127964.1
UniProt Primary Accession #	Q7LGA3
UniProt Secondary Accession #	O75036; Q32NB5; Q8TAC5; Q9H441; Q9NUJ9; D3DT22
UniProt Related Accession #	Q7LGA3
GenBank Nucleotide #	NM_001134492.1
NCBI Official Full Name	heparan sulfate 2-O-sulfotransferase 1 isoform 2
NCBI Official Synonym Full Names	heparan sulfate 2-O-sulfotransferase 1
NCBI Official Symbol	HS2ST1
NCBI Official Synonym Symbols	dJ604K5.2
UniProt Protein Name	Heparan sulfate 2-O-sulfotransferase 1
Protein Family	Heparan sulfate 2-O-sulfotransferase
UniProt Gene Name	HS2ST1
UniProt Synonym Gene Names	HS2ST; KIAA0448; 2-O-sulfotransferase; 2OST
UniProt Entry Name	HS2ST_HUMAN
NCBI Protein Information	heparan sulfate 2-O-sulfotransferase 1
NCBI Summary for HS2ST1	Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. This gene encodes a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Aug 2008]
UniProt Comments for HS2ST1	HS2ST1: Catalyzes the transfer of sulfate to the C2-position of selected hexuronic acid residues within the maturing heparan sulfate (HS). 2-O-sulfation within HS, particularly of iduronate residues, is essential for HS to participate in a variety of high- affinity ligand-binding interactions and signaling processes. Mediates 2-O-sulfation of both L-iduronyl and D-glucuronyl residues. Belongs to the sulfotransferase 3 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Glycan Metabolism - heparan sulfate biosynthesis; EC 2.8.2.-; Transferase Chromosomal Location of Human Ortholog: 1p22.3 Cellular Component: Golgi membrane; integral to membrane; membrane Molecular Function: sulfotransferase activity Biological Process: carbohydrate metabolic process; glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process
Research Articles on HS2ST1	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
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