HS3ST3A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HS3ST3A1, Polyclonal Antibody
Full Product Name	HS3ST3A1 (3OST3A1, HS3ST3A, Heparan Sulfate Glucosamine 3-O-sulfotransferase 3A1, Heparan Sulfate D-glucosaminyl 3-O-sulfotransferase 3A1
Product Gene Name	anti-HS3ST3A1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HS3ST3A1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	44,900 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (13399006..13505244, complement). Location: 17p12
OMIM	604057
3D Structure	ModBase 3D Structure for Q9Y663
Immunogen	Full length human HS3ST3A1, aa1-406 (NP_006033.1).
Immunogen Sequence	MAPPGPASALSTSAEPLSRSIFRKFLLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGVLAGGPRELAVWPAAAQRKRLLQLPQWRRR
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-HS3ST3A1 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-HS3ST3A1 antibody	Western Blot (WB)
Application Notes for anti-HS3ST3A1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-HS3ST3A1 antibody	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to an N-unsubstituted glucosamine linked to
Other Notes	Small volumes of anti-HS3ST3A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If ne
Searchable Terms for HS3ST3A1 purchase	MBS6381678 is an antibody targeting HS3ST3A1. Also known as HS3ST3A1 (3OST3A1, HS3ST3A, Heparan Sulfate Glucosamine 3-O-sulfotransferas

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HS3ST3A1. It may not necessarily be applicable to this product.

NCBI GI #	5174465
NCBI GeneID	9955
NCBI Accession #	NP_006033.1
UniProt Primary Accession #	Q9Y663
UniProt Secondary Accession #	A8K7N2
UniProt Related Accession #	Q9Y663
GenBank Nucleotide #	NM_006042.1
NCBI Official Full Name	heparan sulfate glucosamine 3-O-sulfotransferase 3A1
NCBI Official Synonym Full Names	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1
NCBI Official Symbol	HS3ST3A1
NCBI Official Synonym Symbols	30ST3A1; 3OST3A1
UniProt Protein Name	Heparan sulfate glucosamine 3-O-sulfotransferase 3A1
UniProt Synonym Protein Names	Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3A1
Protein Family	Heparan sulfate glucosamine 3-O-sulfotransferase
UniProt Gene Name	HS3ST3A1
UniProt Synonym Gene Names	3OST3A1; HS3ST3A; 3-OST-3A; Heparan sulfate 3-O-sulfotransferase 3A1; h3-OST-3A
UniProt Entry Name	HS3SA_HUMAN
NCBI Protein Information	heparan sulfate glucosamine 3-O-sulfotransferase 3A1; 3-OST-3A; h3-OST-3A; heparan sulfate 3-O-sulfotransferase 3A1; heparin-glucosamine 3-O-sulfotransferase; heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3A1
NCBI Summary for HS3ST3A1	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 encoded by this gene 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. The sulfotransferase domain of this enzyme is highly similar to the same domain of heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3A1, and these two enzymes sulfate an identical disaccharide. This gene is widely expressed, with the most abundant expression in liver and placenta. [provided by RefSeq, Jul 2008]

UniProt Comments for HS3ST3A1	HS3ST3A1: 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. Catalyzes the O-sulfation of glucosamine in IdoUA2S-GlcNS and also in IdoUA2S-GlcNH2. The substrate-specific O-sulfation generates an enzyme-modified heparan sulfate which acts as a binding receptor to Herpes simplex virus-1 (HSV-1) and permits its entry. Unlike 3-OST-1, does not convert non- anticoagulant heparan sulfate to anticoagulant heparan sulfate. Belongs to the sulfotransferase 1 family. Protein type: Membrane protein, integral; Glycan Metabolism - glycosaminoglycan degradation; Glycan Metabolism - heparan sulfate biosynthesis; Transferase; EC 2.8.2.23 Chromosomal Location of Human Ortholog: 17p12 Cellular Component: Golgi membrane; integral to membrane Molecular Function: sulfotransferase activity; [heparan sulfate]-glucosamine 3-sulfotransferase 3 activity Biological Process: glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process; carbohydrate metabolic process; pathogenesis
Research Articles on HS3ST3A1	**1.** Genetic variants of HS3ST3A1 and HS3ST3B1 are associated with Plasmodium falciparum parasitaemia.
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