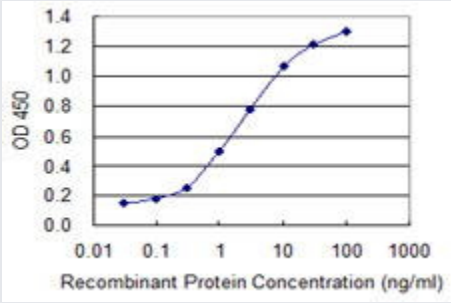
HS6ST1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HS6ST1, Monoclonal Antibody
Full Product Name	HS6ST1 (Heparan Sulfate 6-O-Sulfotransferase 1, DKFZp547H098, FLJ25392, HS6ST, MGC116899, MGC116901) (FITC)
Product Gene Name	anti-HS6ST1 antibody
Product Synonym Names	Heparan Sulfate 6-O-Sulfotransferase 1; DKFZp547H098; FLJ25392; HS6ST; MGC116899; MGC116901
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1G4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes HS6ST1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	48kDa
OMIM	AB006179 mRNA
3D Structure	ModBase 3D Structure for O60243
Immunogen	HS6ST1 (NP_004798, 303aa-401aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	IRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTEDYMSHIIEKW
Conjugate	FITC
Product Categories/Family for anti-HS6ST1 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-HS6ST1 antibody	Western Blot (WB)
Application Notes for anti-HS6ST1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-HS6ST1 antibody	The protein encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biological activities. This enzyme is a type II integral membrane protein and is responsible for 6-O-sulfation of heparan sulfate. This enzyme does not share significant sequence similarity with other known sulfotransferases. A pseudogene located on chromosome 1 has been found for this gene. [provided by RefSeq]
Other Notes	Small volumes of anti-HS6ST1 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 HS6ST1 purchase	MBS6177928 is an antibody targeting HS6ST1. Also known as HS6ST1 (Heparan Sulfate 6-O-Sulfotransferase 1, DKFZp547H098, FLJ25392, HS6ST, MGC116899, MGC116901) (FITC). Host: Mouse.



Testing Data of anti-HS6ST1 antibody
Detection limit for recombinant GST tagged HS6ST1 is 0.03 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HS6ST1. It may not necessarily be applicable to this product.

NCBI GI #	148747866
NCBI GeneID	9394
NCBI Accession #	NP_004798
UniProt Primary Accession #	O60243
UniProt Related Accession #	O60243
GenBank Nucleotide #	NM_004807
NCBI Official Full Name	heparan-sulfate 6-O-sulfotransferase 1
NCBI Official Synonym Full Names	heparan sulfate 6-O-sulfotransferase 1
NCBI Official Symbol	HS6ST1
NCBI Official Synonym Symbols	HH15; HS6ST
UniProt Protein Name	Heparan-sulfate 6-O-sulfotransferase 1
Protein Family	Heparan-sulfate 6-O-sulfotransferase
UniProt Gene Name	HS6ST1
UniProt Synonym Gene Names	HS6ST; HS6ST-1
NCBI Protein Information	heparan-sulfate 6-O-sulfotransferase 1
UniProt Comments for HS6ST1	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. Critical for normal neuronal development where it may play a role in neuron branching. May also play a role in limb development. May prefer iduronic acid.

Research Articles on HS6ST1	**1.** RT-PCR analysis showed that the overall transcriptional activity of the main Heparan Sulfate biosynthesis-involved genes (EXT1, EXT2, NDST1, NDST2, GLCE, HS2ST1, HS3ST1, HS3ST2, HS6ST1, HS6ST2, SULF1, SULF2, HPSE) was decreased by 1.5-2-fold in Grade II-III glioma.
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