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HS3ST3B1 Rabbit pAb

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Catalog # AP56684

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9Y662
Predicted	Human, Mouse, Rat, Dog, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43324
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HS3ST3B1
Epitope Specificity	201-300/390
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus membrane.
SIMILARITY	Belongs to the sulfotransferase 1 family.
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 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]

Additional Information

Gene ID	9953
Other Names	Heparan sulfate glucosamine 3-O-sulfotransferase 3B1, 2.8.2.30, Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3B1, 3-OST-3B, Heparan sulfate 3-O-sulfotransferase 3B1, h3-OST-3B, HS3ST3B1, 3OST3B1, HS3ST3B
Target/Specificity	Ubiquitous. Most abundant in liver and placenta, followed by heart and kidney.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	HS3ST3B1
Synonyms	3OST3B1, HS3ST3B
Function	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 (PubMed:10520990, PubMed:9988768). Catalyzes the O-sulfation of glucosamine in IdoUA2S-GlcNS and also in IdoUA2S-GlcNH2 (PubMed:10520990, PubMed:9988768). 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 (PubMed:10520990). Unlike HS3ST1/3-OST-1, does not convert non-anticoagulant heparan sulfate to anticoagulant heparan sulfate (PubMed:9988768).
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein
Tissue Location	Ubiquitous. Most abundant in liver and placenta, followed by heart and kidney.

Background

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]