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HS3ST5 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP10729a

Specification

HS3ST5 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q8IZT8

HS3ST5 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 222537

Other Names
Heparan sulfate glucosamine 3-O-sulfotransferase 5, Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 5, 3-OST-5, Heparan sulfate 3-O-sulfotransferase 5, h3-OST-5, HS3ST5, 3OST5, HS3OST5

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HS3ST5 Antibody (N-term) Blocking peptide - Protein Information

Name HS3ST5

Synonyms 3OST5, HS3OST5

Function
Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan. Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site. Also generates GlcUA-GlcNS or IdoUA-GlcNS and 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.

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location
Highly expressed in skeletal muscle and fetal brain, and also found in adult brain, spinal cord, cerebellum and colon.

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HS3ST5 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

HS3ST5 Antibody (N-term) Blocking peptide - Images

HS3ST5 Antibody (N-term) Blocking peptide - Background

HS3ST5 belongs to a group of heparan sulfate3-O-sulfotransferases (EC 2.8.2.23) that transfer sulfate from3-prime-phosphoadenosine 5-prime phosphosulfate (PAPS) to heparansulfate and heparin (Mochizuki et al., 2003 [PubMed12740361]).

HS3ST5 Antibody (N-term) Blocking peptide - References

Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)Chen, J., et al. Biochim. Biophys. Acta 1725(2):190-200(2005)Duncan, M.B., et al. Biochim. Biophys. Acta 1671 (1-3), 34-43 (2004) :Mochizuki, H., et al. J. Biol. Chem. 278(29):26780-26787(2003)Xia, G., et al. J. Biol. Chem. 277(40):37912-37919(2002)