

HS2ST1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7648a**Specification**

HS2ST1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q7LGA3](#)**HS2ST1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9653**Other Names**

Heparan sulfate 2-O-sulfotransferase 1, 2-O-sulfotransferase, 2OST, 282-, HS2ST1, HS2ST, KIAA0448

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7648a](/product/products/AP7648a) was selected from the N-term region of human HS2ST1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

HS2ST1 Antibody (N-term) Blocking Peptide - Protein Information**Name** HS2ST1**Synonyms** HS2ST, KIAA0448**Function**

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).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

HS2ST1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HS2ST1 Antibody (N-term) Blocking Peptide - Images

HS2ST1 Antibody (N-term) Blocking Peptide - Background

Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. Heparan sulfate 2-O-sulfotransferase is a member of the heparan sulfate biosynthetic enzyme family. This family member transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of the HS2ST1 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.