

Human Heparan Sulfate 6-O-Sulfotransferase 1/HS6ST1 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 584308

Catalog Number: FAB5057G

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Heparan Sulfate 6-O-Sulfotransferase 1/HS6ST1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 584308
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Heparan Sulfate 6-O-Sulfotransferase 1/HS6ST1 Pro38-Trp411 Accession # 060243
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Heparan Sulfate is a highly sulfated polysaccharide that can be found on cell surface and extracellular matrix. It is usually covalently attached to a protein core as the glycan component of a proteoglycan. Heparan Sulfate interacts with a variety of proteins, such as growth factors, protease inhibitors, cytokines, lipoprotein lipase and viral envelope proteins, thus plays roles from cell growth, cell differentiation, cell motility, blood coagulation, lipid metabolism to viral infection (1, 2). Heparan Sulfate consists of repeating residues of uronic acid and N-acetylglucosamine. The uronic acid residues can be sulfated at 2-O position by Heparan Sulfate 2-O Sulfotransferase (HS2ST). The N-acetylglucosamine residues can be sulfated at N-, 3-O, and 6-O positions by N-deacetylase/N-sulfotransferases (NDSTs), Heparan Sulfate 3-O and 6-O sulfotransferases (HS3STs and HS6STs) respectively. However, the reactions catalyzed by these sulfotransferases are normally incomplete on the whole chain of Heparan Sulfate. As a result, Heparan Sulfate displays enormous sequence diversity that allows it to interact with a wide spectrum of proteins differently. Among three HS6STs, HS6ST1 is the first to be cloned (3). Mice deficient of the HS6ST1 homologue gene showed embryonic lethality (4).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/21/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956