

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Heparan Sulfate 6-O-Sulfotransferase/HS6ST3 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Heparan Sulfate 6-O-Sulfotransferase/HS6ST3 Pro28-Trp470 Accession # NP_056635
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

HS6ST3 (Heparin sulfate 6-O-sulfotransferase 3) is a 60-62 kDa member of the sulfotransferase 6 family of enzymes. It is one of three 6-O sulfotransferase isoforms, all of which essentially perform the same function, but all of which are the products of distinct genes. HS6ST3 is known to sulfate the #6 position of glucosamine sulfate that is linked to a 2-O-sulfated iduronic acid in heparin sulfate. The molecule shows a temporal expression pattern, being found in postnatal cerebellar Purkinje cells and cerebral cortical pyramidal cells in layers II/III and V. Mouse HS6ST3 is a 470 amino acid (aa) type II transmembrane glycoprotein. It contains a short four aa cytoplasmic N-terminus coupled to an extended 443 aa luminal domain (aa 28-470). The luminal domain contains a stem region (aa 28-83) that mediates oligomerization and Golgi localization, plus a sulfotransferase enzyme domain (aa 142-409). Cleavage within the stem region by β -secretase generates a soluble form of HS6ST3. Over aa 28-470, mouse HS6ST3 shares 99% and 95% aa identity with rat and human HS6ST3, respectively.

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.