

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 (Heparan 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 heparan 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

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