

Human/Mouse/Rat ST3 β-Gal α-2,3-Sialyltransferase 2/ST3GAL2 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7275T

100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat ST3 β -Gal α -2,3-Sialyltransferase 2/ST3GAL2 in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) ST6GALNAC4 and rhST3GAL1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ST3 β-Gal α-2,3-Sialyltransferase 2/ST3GAL2 Pro52-Gln350 Accession # NP_008858
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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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

Sialyltransferases add sialic acid to glycoproteins or glycosphingolipids and play important roles in many biological processes including immune recognition, pathogen infection, and cell adhesion (1). Similar to ST3GAL1 (2), ST3GAL2 is a type II membrane protein localized in the trans-Golgi network that can transfer sialic acid to the Galβ1-3GalNAc structure to form NeuAca2-3Galβ1-3GalNAc found in terminal carbohydrate groups of particular glycoproteins, oligosaccharides and glycolipids (3). Unlike the ubiquitously expressed ST3GAL1 (4), ST3GAL2 is mainly expressed in heart, liver, skeletal muscle and various lymphoid tissues but not in brain and kidney (3). ST3GAL2 is responsible for the synthesis of monosialosyl globopentaosylceramide (MSGb5), also known as stage-specific embryonic antigen-4 (SSEA4) (5), a cell surface marker for testicular germ cell carcinoma, renal cell carcinoma, and mesenchymal stem cells (6). The enzymatic activity of recombinant human ST3GAL2 was determined using a phosphatase-coupled glycosyltransferase assay (7). Over as 52-350 human ST3GAL2 share 94% as sequence identity with mouse and rat.

PRODUCT SPECIFIC NOTICES

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