

For Research Use Only

ST3GAL2 Polyclonal antibody

Catalog Number: 13620-1-AP

1 Publications



Basic Information

Catalog Number:

13620-1-AP

Size:

150ul, Concentration: 240 ug/ml by Nanodrop and 140 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4528

GenBank Accession Number:

BC036777

GeneID (NCBI):

6483

UNIPROT ID:

Q16842

Full Name:

ST3 beta-galactoside alpha-2,3-sialyltransferase 2

Calculated MW:

350 aa, 40 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: human colon tissue, HL-60 cells, human heart tissue, human liver tissue, human spleen tissue, K-562 cells

IHC: rat heart tissue, human skin tissue

Background Information

Beta-galactoside alpha-2,3-sialyltransferase 2 (ST3GAL2) is a sialyltransferase (ST) that transfers sialic acid from the activated donor CMP-sialic acid to the glycan terminus of a glycolipid or glycoprotein. ST3GAL2 contains two putative N-glycosylation sites (Asn92 and Asn211), which are mainly responsible for GD1a and GT1b ganglioside biosynthesis in the brain. ST3GAL2 belongs to the sialyltransferase family, which mediates the terminal modification of glycoproteins and glycolipids. ST3GAL2 has been found to play a role in obesity, aging, and malignant diseases (PMID: 34319453). The calculated molecular weight of ST3GAL2 is 40 kDa, but the observed is 55 kDa, which may be the glycosylation form of ST3GAL2.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaocheng Li	39256125	Int J Biol Macromol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

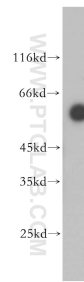
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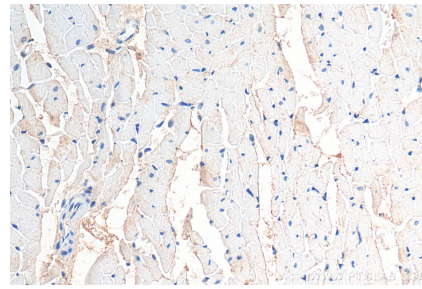
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



human colon tissue were subjected to SDS PAGE followed by western blot with 13620-1-AP (ST3GAL2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 13620-1-AP (ST3GAL2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).