For Research Use Only

ST6GAL1 Polyclonal antibody

Catalog Number:14355-1-AP Featured Product 20 Publications

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Basic Information

Catalog Number:
14355-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5705

GenBank Accession Number:
BC040009

GeneID (NCBI):
6480

UNIPROT ID:
P15907

Full Name:
ST6 beta-galactosamide alpha-2,6-sialyltranferase 1

Calculated MW:
47 kDa

Observed MW:
43-45 kDa, 50-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:300-1:1200

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

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 : HepG2 cells, HuH-7 cells, Jurkat cells, mouse spleen tissue, U-937 cells, L02 cells

IP : Raji cells,

IHC : human colon cancer tissue, human ovary cancer tissue, human skin tissue

Background Information

ST6GAL1 (β -galactoside α -2-6 sialyl transferase1; also known as ST6N or CD75) is a sialyltransferase mediating the glycosylation of proteins and lipids to form functionally important glycoproteins and glycolipids in the Golgi compartment. It is principally expressed in liver, placenta, and skeletal muscle. ST6GAL1 undergoes proteolytic process to generate soluble form from membrane form. Western blot analysis of human liver using this antibody detects both isoforms between 43-50 kDa. Higher molecular weight of bands around 50-70 kDa can also be observed with glycosylation modification. (PMID: 15049997, 23358684)

Notable Publications

Author	Pubmed ID	Journal	Application
Jun Wang	34745942	Front Oncol	WB
Ruijia Liu	36238765	J Inflamm Res	WB,IHC
Emma Kurz	34634466	Mol Cell Proteomics	IHC,IF

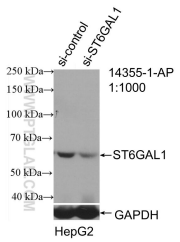
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

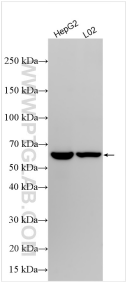
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

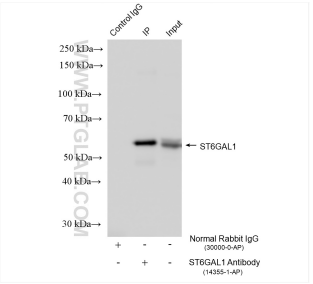
Selected Validation Data



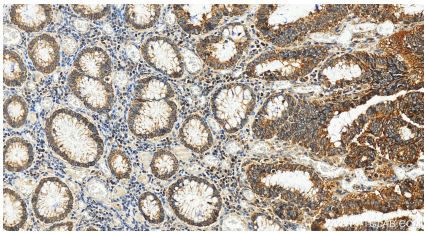
WB result of ST6GAL1 antibody (14355-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ST6GAL1 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 14355-1-AP (ST6GAL1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-ST6GAL1 (IP:14355-1-AP, 4ug; Detection:14355-1-AP 1:3000) with Raji cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14355-1-AP (ST6GAL1 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).