For Research Use Only

Mouse ST6GAL1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:87468-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
87468-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG5251

GenBank Accession Number:
NM_001252505.1

GeneID (NCBI):
20440

UNIPROT ID:
Q64685

Full Name:
beta galactoside alpha 2,6 sialyltransferase 1

Calculated MW:
47 kDa

Observed MW:
39-42 kDa and 49-50 kDa

Purification Method:
Protein A purification

CloneNo.:
251963F1

Applications

Tested Applications:
WB, IHC, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

87468-1-PBS targets ST6GAL1 as part of a matched antibody pair:

MP03142-1: 87468-1-PBS capture and 87468-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

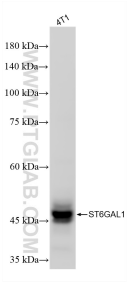
ST6GAL1 is a sialyltransferase mediating the glycosylation of proteins and lipids to form functionally important glycoproteins and glycolipids in the Golgi compartment. It is principally expressed in liver, placenta, and skeletal muscle (PMID: 15049997, PMID: 23358684). Two molecular forms of ST6GAL1 are generally observed, a larger 49-50 kDa and a smaller 39-42 kDa form, representing its full-length and the smaller soluble catalytic domain, respectively (PMID: 35676533, PMID: 35661210).

Storage

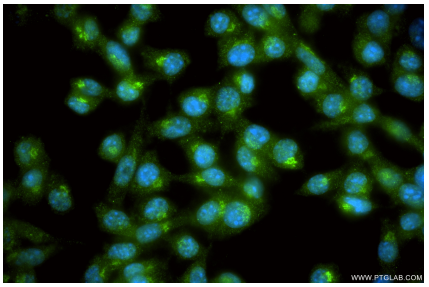
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

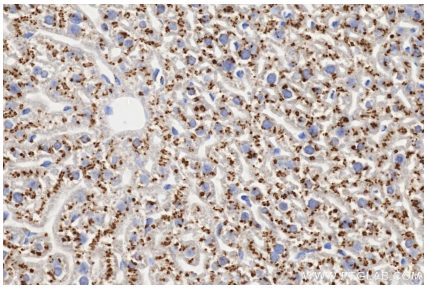
Selected Validation Data



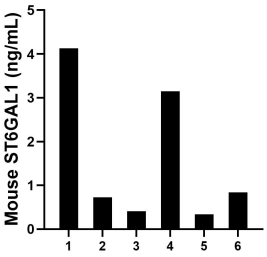
4T1 cells were subjected to SDS PAGE followed by western blot with 87468-1-RR (ST6GAL1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87468-1-PBS in a different storage buffer formulation.



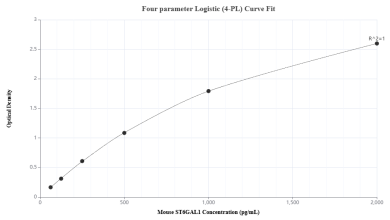
Immunofluorescent analysis of (4% PFA) fixed 4T1 cells using ST6GAL1 antibody (87468-1-RR, Clone: 251963F1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87468-1-PBS in a different storage buffer formulation.



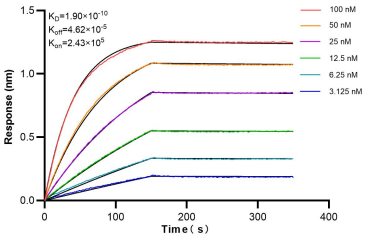
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 87468-1-RR (ST6GAL1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87468-1-PBS in a different storage buffer formulation.



Serum of six mice was measured. The mouse ST6GAL1 concentration of detected samples was determined to be 1.60 ng/mL with a range of 0.34 - 4.13 ng/mL.



Sandwich ELISA standard curve of MP03142-1, Mouse ST6GAL1 Recombinant Matched Antibody Pair - PBS only. 87468-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg5251. 87468-2-PBS was HRP conjugated as the detection antibody. Range: 62.5-2000 pg/mL



Biolayer interferometry (BLI) kinetic assays of 87468-1-RR against Mouse ST6GAL1 were performed. The affinity constant is 0.19 nM.