

For Research Use Only

ST3GAL5 Polyclonal antibody

Catalog Number: 14614-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

14614-1-AP

Concentration:

227 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6207

GenBank Accession Number:

BC065936

GeneID (NCBI):

8869

UNIPROT ID:

Q9UNP4

Full Name:

ST3 beta-galactoside alpha-2,3-sialyltransferase 5

Calculated MW:

48 kDa

Observed MW:

45-50 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, IHC, IF

Species Specificity:

human, mouse

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: HEK-293 cells, Jurkat cells, HeLa cells, human testis tissue, human placenta tissue

IHC: mouse skeletal muscle tissue, human skeletal muscle tissue, human skin tissue

Background Information

ST3GAL5 is also named as SIAT9, GM3 synthase, ST3Gal V, Sialyltransferase 9 and belongs to the glycosyltransferase 29 family. ST3GAL5 transfers the sialyl group (N-acetyl-alpha-neuraminyl or NeuAc) from CMP-NeuAc to the non-reducing terminal galactose of glycosphingolipids forming gangliosides (PMID:9822625, PMID:16934889). SIAT9 is mainly involved in the biosynthesis of ganglioside GM3 but can also use different glycolipids as substrate acceptors such as D-galactosylceramide (GalCer), asialo-GM2 (GA2) and asialo-GM1 (GA1) (PMID:16934889). ST3GAL5 is highly expressed in brain, skeletal muscle, placenta, and testis. And mRNA of ST3GAL5 is widely distributed in human brain, but slightly elevated expression was observed in the cerebral cortex, temporal lobe, and putamen (PMID:9822625). ST3GAL5 has 3 isoforms with the molecular mass of 45, 46, and 48 kDa. Sometimes the band of 70 kDa can also be observed, which may be a glycosylated form of ST3GAL5 (PMID:34943806, PMID:26458842).

Notable Publications

Author	Pubmed ID	Journal	Application
Jiakuan Liu	36172374	Front Immunol	IHC
Norihiko Sasaki	36313564	Front Cell Dev Biol	WB
Yuli Jian	39920744	Cancer Cell Int	WB,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:

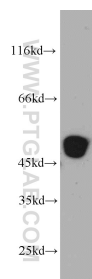
T: 4006900926

E: Proteintech-CN@ptglab.com

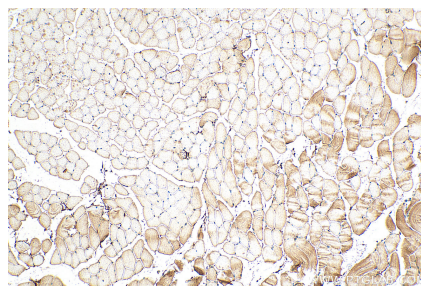
W: ptgcn.com

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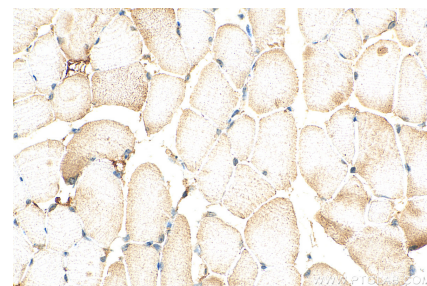
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 14614-1-AP (ST3GAL5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 14614-1-AP (ST3GAL5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 14614-1-AP (ST3GAL5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).