

For Research Use Only

ST3GAL5 Polyclonal antibody

Catalog Number: 14614-1-AP **4 Publications**



Basic Information

Catalog Number: 14614-1-AP	GenBank Accession Number: BC065936	Purification Method: Antigen affinity purification
Size: 227 µg/ml	GeneID (NCBI): 8869	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9UNP4	
Isotype: IgG	Full Name: ST3 beta-galactoside alpha-2,3-sialyltransferase 5	
Immunogen Catalog Number: AG6207	Calculated MW: 48 kDa	
	Observed MW: 45-50 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

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 high expression 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
Misato Horie	37716915	Mol Oncol	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

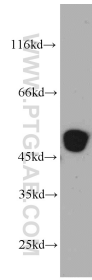
T: 4006900926

E: Proteintech-CN@ptglab.com

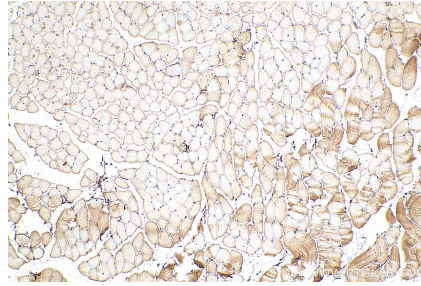
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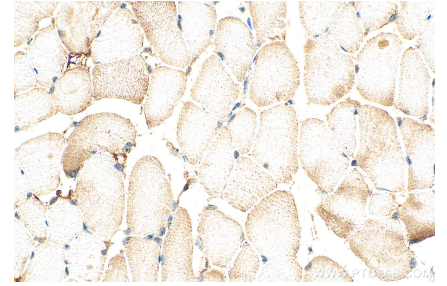
Selected Validation Data



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).