

For Research Use Only

ST3GAL5 Polyclonal antibody

Catalog Number: 30120-1-AP



Basic Information

Catalog Number: 30120-1-AP	GenBank Accession Number: BC065936	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 ug/ml by Nanodrop;	GeneID (NCBI): 8869	Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q9UNP4	
Isotype: IgG	Full Name: ST3 beta-galactoside alpha-2,3-sialyltransferase 5	
Immunogen Catalog Number: AG32461	Calculated MW: 48 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: Human, mouse	WB : HEK-293 cells, HeLa cells, Jurkat cells, human placenta tissue, mouse testis tissue IF/ICC : U2OS cells,

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). This antibody recognizes the glycosylated form of ST3GAL5 (PMID: 34943806, PMID: 26458842).

Storage

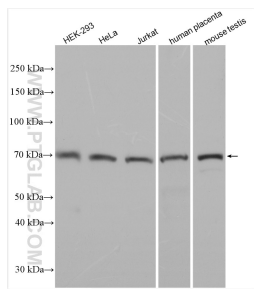
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

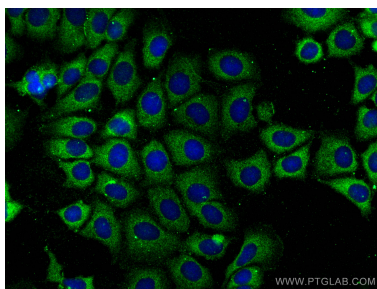
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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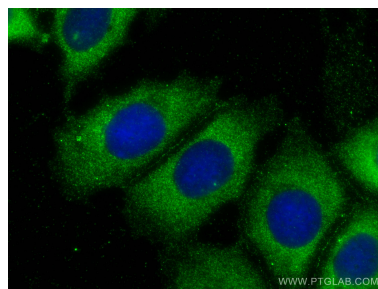
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30120-1-AP (ST3GAL5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using ST3GAL5 antibody (30120-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using ST3GAL5 antibody (30120-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).