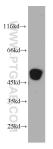
For Research Use Only

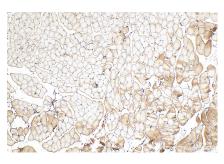
ST3GAL5 Polyclonal antibody Catalog Number: 14614-1-AP Featured Product 5 Publications

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Basic Information	Catalog Number: 14614-1-AP	GenBank Accession Num BC065936	nber:	Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 227 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	GenelD (NCBI): 8869		Recommended Dilutions: WB 1:500-1:1000
			IHC 1:50-1:500	
	Source: Rabbit Isotype:	Full Name: ST3 beta-galactoside alpha-2,3- sialyltransferase 5 Calculated MW: 48 kDa		
	IgG Immunogen Catalog Number: AG6207			
		Observed MW: 45-50 kDa		
Applications	Tested Applications:	Positive Controls:		ols:
	WB, IHC, ELISA Cited Applications:		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	
	WB, IHC, IF Species Specificity: human, mouse			
	Cited Species: human, mouse			
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
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 Pub	med ID Journal		Application
	Jiakuan Liu 361	72374 Front Imm	nunol	IHC
	Norihiko Sasaki 363	13564 Front Cell	Dev Biol	WB
	Yuli Jian 389	59540 Int Immur	nopharmacol	WB,IHC
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com	Gro		xclusively available under Proteintech I is not available to purchase from any

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 paraffinembedded 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 paraffinembedded 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).