

For Research Use Only

SPTAN1 Recombinant antibody

Catalog Number: 84761-2-RR



Basic Information

Catalog Number:	84761-2-RR	GenBank Accession Number:	NM_003127.3	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	6709	CloneNo.:	242104B7
Source:	Rabbit	UNIPROT ID:	Q13813	Recommended Dilutions:	WB: 1:5000-1:50000 IHC: 1:200-1:800
Isotype:	IgG	Full Name:	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)		
Immunogen Catalog Number:	AG36472	Calculated MW:	285kDa 2472aa		
		Observed MW:	285 kDa, 150 kDa		

Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Species Specificity:	human, mouse, rat	WB :	3T3-L1 cells, mouse brain tissue, HeLa cells, Jurkat cells, MDA-MB-231 cells, rat brain tissue
Note-IHC:	suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC :	mouse brain tissue, rat brain tissue

Background Information

SPTAN1 (Nonerythroid spectrin all), also termed α -Fodrin, is a cytoskeletal protein that belongs to the family of spectrins. Spectrins includes several structural proteins (α - and β -spectrin, α -actinin, dystrophin, and utrophin) that build and stabilize the cytoskeleton by forming a hexagonal mesh under the plasma membrane and ensuring stability and organization of organelles in the cell. SPTAN1 encodes for a 2,472 amino acid protein with a predicted molecular weight of 284 kDa and can be cleaved by calpain leading to a 150 kDa fragment (PMID: 31186638).

Storage

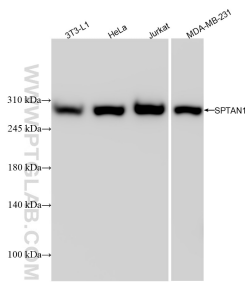
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

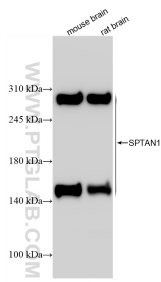
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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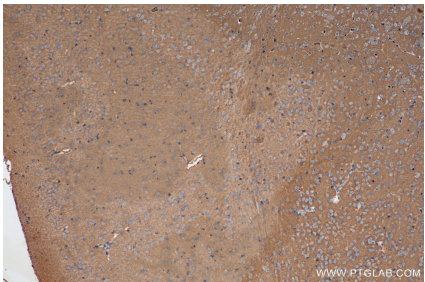
Selected Validation Data



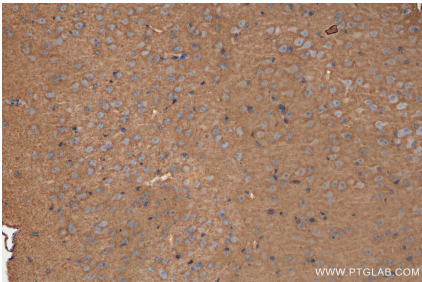
Various lysates were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



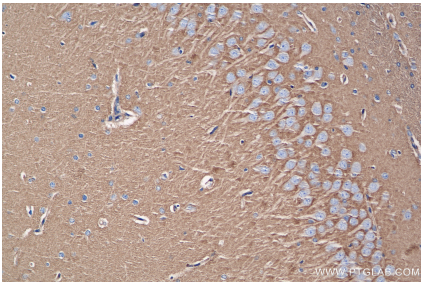
mouse brain tissue were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



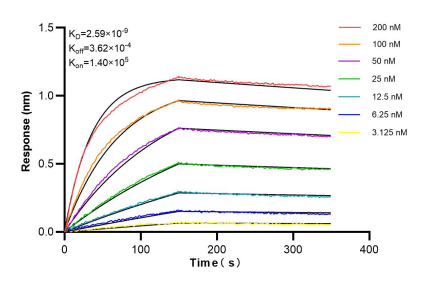
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84761-2-RR (SPTAN1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84761-2-RR (SPTAN1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 84761-2-RR (SPTAN1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 84761-2-RR against Human SPTAN1 were performed. The affinity constant is 2.59 nM.