

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
Concentration: 1000 µg/ml	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 α II), 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

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

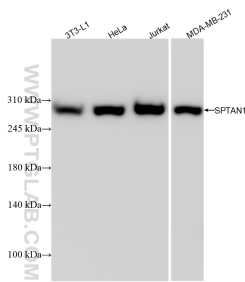
T: 4006900926

E: Proteintech-CN@ptglab.com

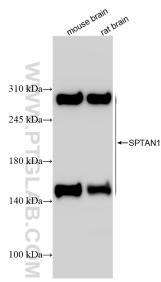
W: ptgcn.com

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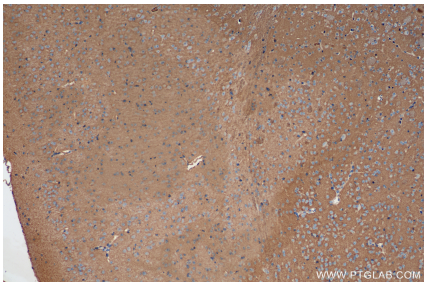
Selected Validation Data



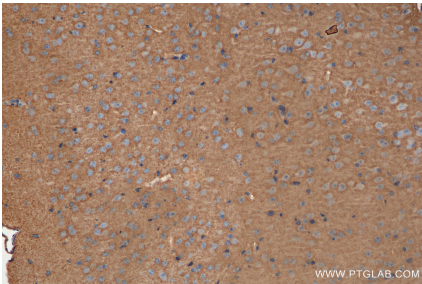
Various lysates were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



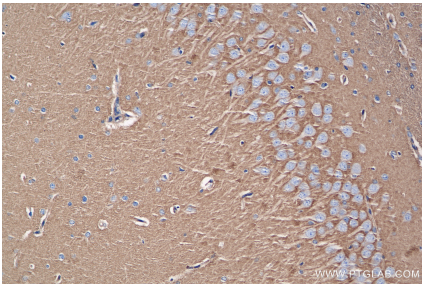
mouse brain tissue were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



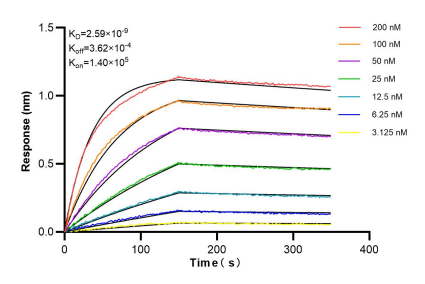
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84761-2-RR (SPTAN1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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