

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

Species Specificity:

human, mouse, rat

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: 3T3-L1 cells, mouse brain tissue, HeLa cells, Jurkat cells, MDA-MB-231 cells, rat brain tissue

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:

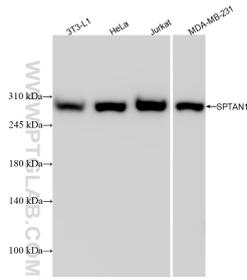
T: 4006900926

E: Proteintech-CN@ptglab.com

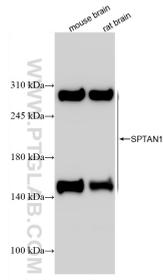
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



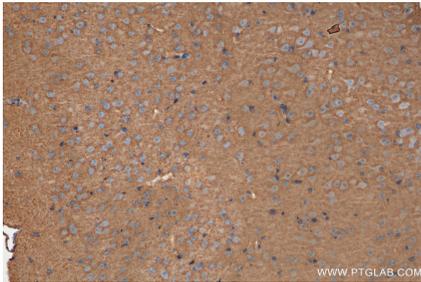
Various lysates were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



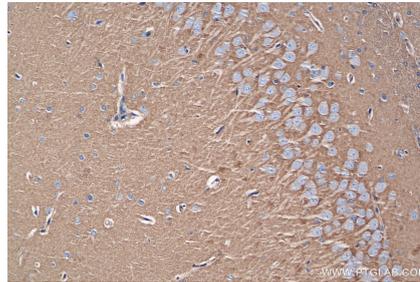
mouse brain tissue were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



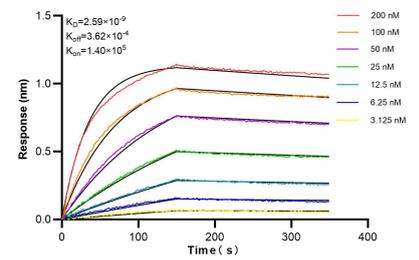
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84761-2-RR (SPTAN1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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