

For Research Use Only

SPTAN1 Recombinant antibody, PBS Only

Catalog Number: 84761-2-PBS



Basic Information

Catalog Number: 84761-2-PBS	GenBank Accession Number: NM_003127.3	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6709	CloneNo.: 242104B7
Source: Rabbit	UNIPROT ID: Q13813	
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, Indirect ELISA

Species Specificity:
human, mouse, rat

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

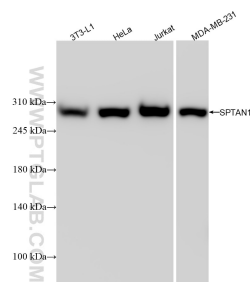
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

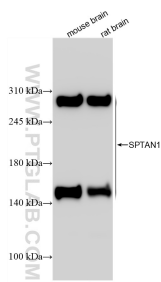
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

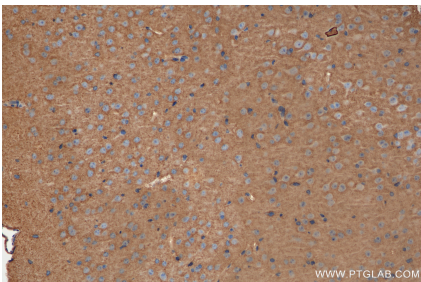
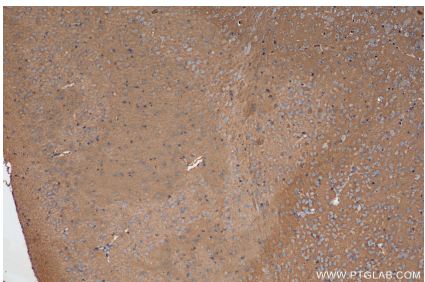
Selected Validation Data



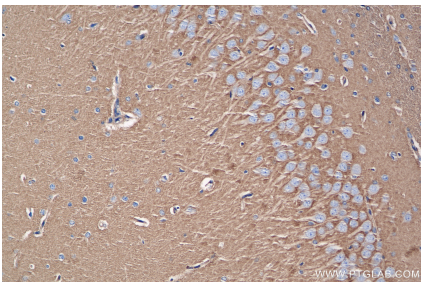
Various lysates were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84761-2-PBS in a different storage buffer formulation.



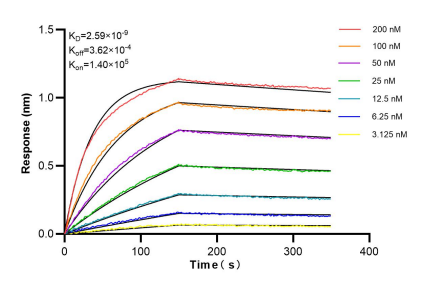
mouse brain tissue were subjected to SDS PAGE followed by western blot with 84761-2-RR (SPTAN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84761-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84761-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84761-2-PBS in a different storage buffer formulation.



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