For Research Use Only

SMN Polyclonal antibody

Catalog Number:20451-1-AP

Featured Product

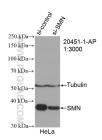


Basic Information	Catalog Number:GenBank Accession Number:20451-1-APBC000908		lumber:	Purification Method: Antigen affinity purification				
	Size: 350 µg/ml	GeneID (NCBI): 6607 UNIPROT ID: Q16637 Full Name: survival of motor neuron 2, centromeric Calculated MW: 282 aa, 30 kDa		Recommended Dilutions: WB 1:500-1:3000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:200 IF/ICC 1:400-1:1600				
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG14333							
					Observed MW: 38 kDa			
					Applications	Tested Applications:		Positive Controls:
		IF/ICC, IHC, IP, WB, ELISA Species Specificity:				WB : HEK-293 cells, Jurkat cells, HepG2 cells, HeLa cells, K-562 cells IP : HEK-293 cells,		
human, mouse Note-IHC: suggested antige	n ratriaval with	IP : HEK-293						
TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate		IHC : human kidney tissue, human heart tissue IF/ICC : HepG2 cells,						
Background Information	buffer pH 6.0 Spinal muscular atrophy (SMA) is an autosomal recessive neurodegenerative disease characterized by loss of anterior horn cells in the spinal cord and concomitant symmetrical muscle weakness and atrophy (PMID: 16364894) SMA is caused by deletion or mutations of the survival motor neuron (SMN1) gene. SMA patients lack a functional SMN1 gene, but they possess an intact SMN2 gene, which though nearly identical to SMN1, is only partially functional (PMID: 17355180). A large majority of SMN2 transcripts lack exon 7, resulting in production of a truncated, less stable SMN protein (PMID: 10369862). The level of SMN protein correlates with phenotypic severity of SMA.							
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.						

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

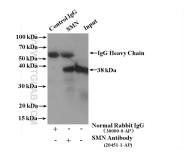
Selected Validation Data



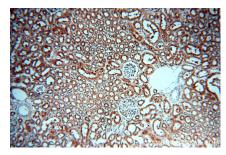
WB result of SMN antibody (20451-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN transfected HeLa cells.



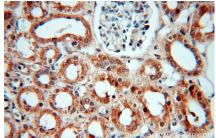
HEK-293 cells were subjected to SDS PAGE followed by western blot with 20451-1-AP (SMN antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-SMN (IP:20451-1-AP, 4ug; Detection:20451-1-AP 1:300) with HEK-293 cells lysate 2000 ug.



Immunohistochemical analysis of paraffinembedded human kidney using 20451-1-AP (SMN antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human kidney using 20451-1-AP (SMN antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN antibody (20451-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).