For Research Use Only

SMN Polyclonal antibody

Catalog Number:11708-1-AP Featured Product 14 Publications

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Basic Information

Catalog Number:
11708-1-AP

Size:
150ul , Concentration: 333 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2260

GenBank Accession Number:
BC000908

GeneID (NCBI):
6607

UNIPROT ID:
Q16637

Full Name:
survival of motor neuron 2, centromeric

Calculated MW:
282 aa, 30 kDa

Observed MW:
38 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:16000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:200
IF/ICC: 1:750-1:3000

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, IP, ELISA

Species Specificity:
human, mouse, rat

Cited Species:
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 : HEK-293 cells, HeLa cells, mouse testis tissue, HepG2 cells, Jurkat cells, K-562 cells

IP : HEK-293 cells,

IHC : human kidney tissue, human brain tissue, human heart tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue, human testis tissue, mouse brain tissue, mouse kidney tissue, mouse liver tissue

IF/ICC : HepG2 cells,

Background Information

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. This antibody, 11708-1-AP, raised against the recombinant full-length human SMN2 protein, recognizes all isoforms of SMN protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Vicki L McGovern	33084884	Hum Mol Genet	WB
Yuhong Zhang	34628513	J Mol Med (Berl)	WB,IP,IF
Phillip Zaworski	26953792	PLoS One	

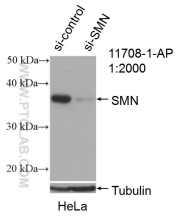
Storage

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

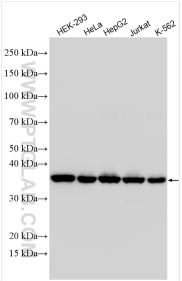
*** 20ul sizes contain 0.1%BSA

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
W: ptglab.com

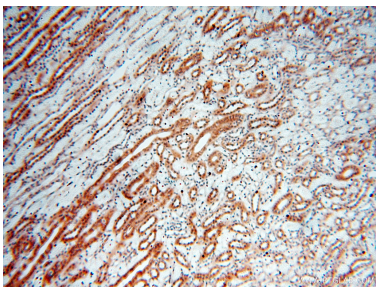
Selected Validation Data



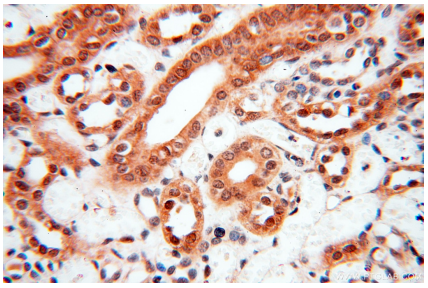
WB result of SMN antibody (11708-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN transfected HeLa cells.



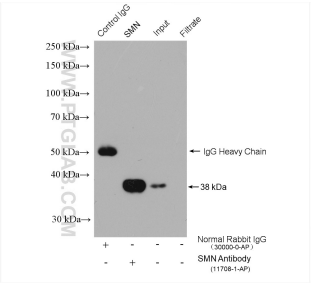
HEK-293 cells were subjected to SDS PAGE followed by western blot with 11708-1-AP (SMN antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



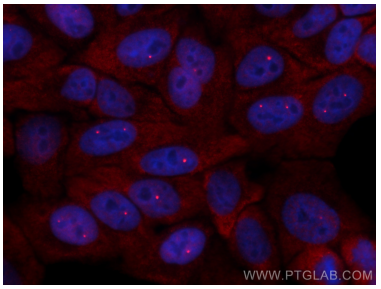
Immunohistochemical analysis of paraffin-embedded human kidney using 11708-1-AP (SMN antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 11708-1-AP (SMN antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-SMN (IP:11708-1-AP, 4ug; Detection:11708-1-AP 1:2000) with HEK-293 cells lysate 1040 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN antibody (11708-1-AP) at dilution of 1:1500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).