

For Research Use Only

# SMN Recombinant monoclonal antibody

Catalog Number: 86668-2-RR

1 Publications



## Basic Information

Catalog Number:

86668-2-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4812

GenBank Accession Number:

BC015308

GeneID (NCBI):

6607

UNIPROT ID:

Q16637

Full Name:

survival of motor neuron 2,  
centromeric

Calculated MW:

30 kDa

Observed MW:

38 kDa

Purification Method:

Protein A purification

CloneNo.:

251620C4

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total  
protein lysate

IF/ICC: 1:250-1:1000

## Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HEK-293T cells, K-562 cells, U-87 MG  
cells, SH-SY5Y cells, mouse testis tissue, rat brain  
tissue

IP : HEK-293 cells,

IF/ICC : HepG2 cells, HeLa 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.

## Notable Publications

| Author | Pubmed ID | Journal                   | Application |
|--------|-----------|---------------------------|-------------|
| Lin Ye | 42405675  | Invest Ophthalmol Vis Sci |             |

## 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:

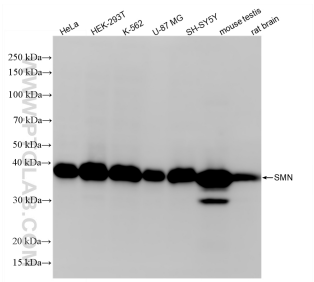
T: 4006900926

E: Proteintech-CN@ptglab.com

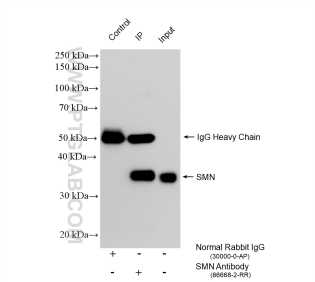
W: ptgcn.com

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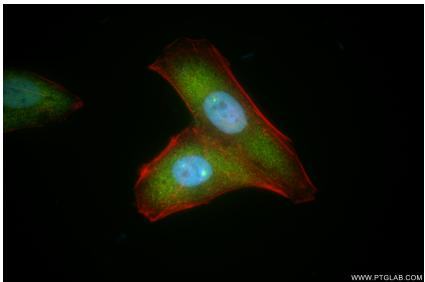
Selected Validation Data



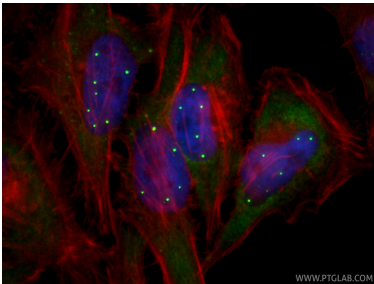
Various lysates were subjected to SDS PAGE followed by western blot with 86668-2-RR (SMN antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SMN (IP: 86668-2-RR, 4 ug; Detection: 86668-2-RR 1:600) with HEK-293 cells lysate 1200 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN antibody (86668-2-RR, Clone: 251620C4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SMN antibody (86668-2-RR, Clone: 251620C4) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).