

For Research Use Only

# SMN Polyclonal antibody

Catalog Number: 22329-1-AP

Featured Product



## Basic Information

**Catalog Number:**

22329-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG17798

**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 purified

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Species Specificity:**

human

**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:** K-562 cells, HepG2 cells, HEK-293 cells, Jurkat cells

**IHC:** human testis tissue,

**IF:** 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.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

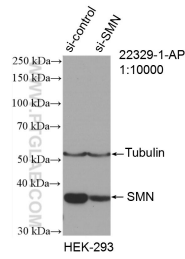
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

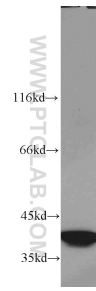
W: [ptgcn.com](http://ptgcn.com)

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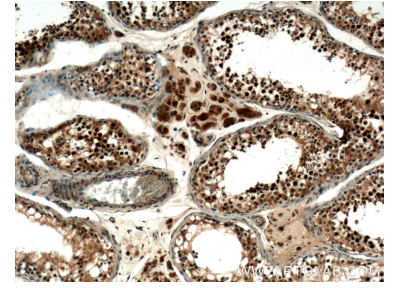
## Selected Validation Data



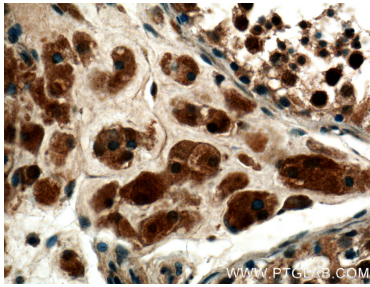
WB result of SMN antibody (22329-1-AP; 1:10000); incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN transfected HEK-293 cells.



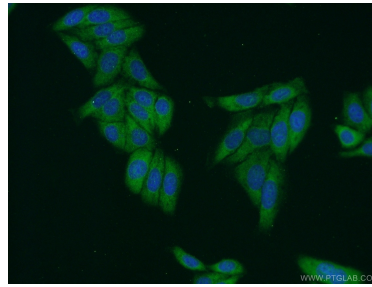
K-562 cells were subjected to SDS PAGE followed by western blot with 22329-1-AP (SMN antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 22329-1-AP (SMN antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 22329-1-AP (SMN antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 22329-1-AP (SMN antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).