

For Research Use Only

# SMN (Human,Mouse,Rat) Monoclonal antibody

Catalog Number:60154-2-Ig

Featured Product



## Basic Information

Catalog Number:

60154-2-Ig

Concentration:

1500 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG14333

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:

Protein A purification

CloneNo.:

3C10B5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:250-1:1000

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

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** : HepG2 cells, A375 cells, HeLa cells, T-47D cells,  
HEK-293 cells, MOLT-4 cells, Jurkat cells, Raji cells

**IHC** : human rectal cancer tissue, human colon cancer,  
mouse brain tissue, mouse kidney tissue, mouse liver  
tissue, rat kidney tissue, rat liver tissue

**IF/ICC** : HepG2 cells,

## Background Information

The survival of motor neurons (SMN) genes are the disease genes of spinal muscular atrophy (SMA), a common motor neuron degenerative disease. The level of SMN protein correlates with phenotypic severity of SMA. SMA patients lack a functional SMN1 gene, but they possess an intact SMN2 gene, which though nearly identical to SMN1, is only partially functional, because a large majority of SMN2 transcripts lack exon 7, resulting in production of a truncated, less stable SMN protein. This antibody 60154-2-Ig can recognize human, mouse and rat SMN gene.

## 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:

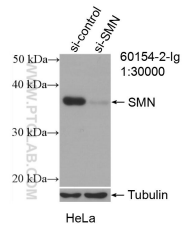
T: 4006900926

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

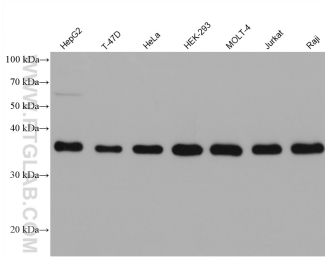
W: [ptgcn.com](http://ptgcn.com)

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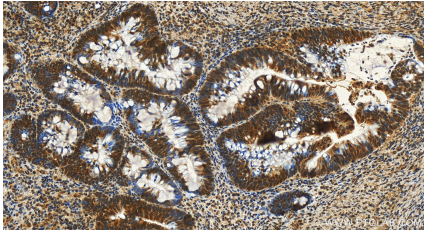
Selected Validation Data



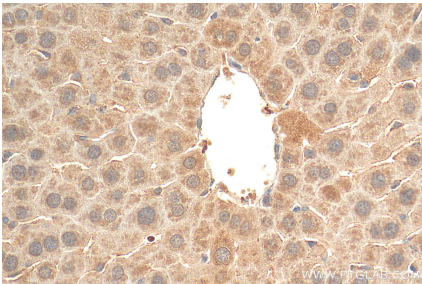
WB result of SMN (Human,Mouse,Rat) antibody (60154-2-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN (Human,Mouse,Rat) transfected HeLa cells.



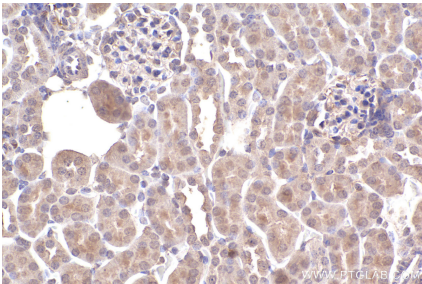
Various lysates were subjected to SDS PAGE followed by western blot with 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



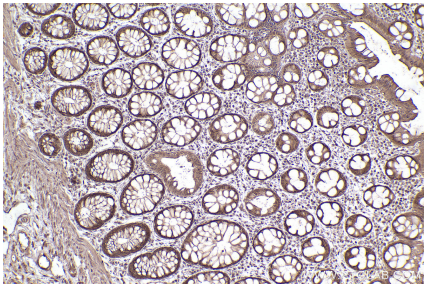
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



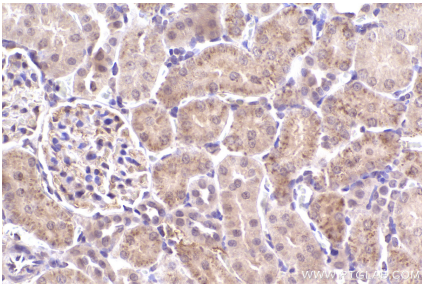
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



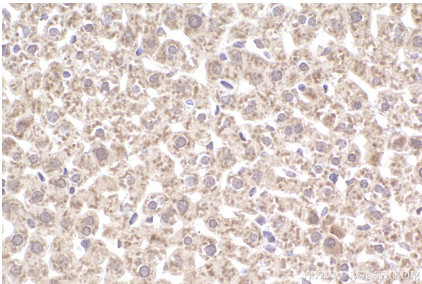
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



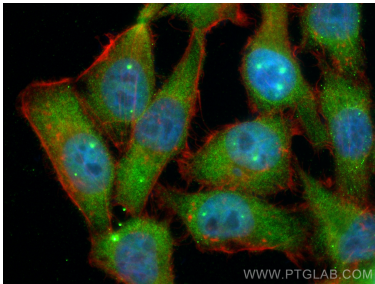
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



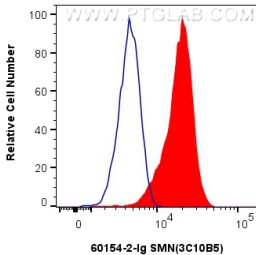
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN (Human,Mouse,Rat) antibody (60154-2-Ig, Clone: 3C10B5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug SMN (Human,Mouse,Rat) Monoclonal antibody (60154-2-Ig, Clone:3C10B5) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).