

For Research Use Only

SMN (Human,Mouse,Rat) Monoclonal antibody

Catalog Number: 60154-2-Ig

Featured Product



Basic Information

Catalog Number:

60154-2-Ig

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop;

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

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

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,

FC (Intra): Jurkat 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

*** 20ul sizes contain 0.1% BSA

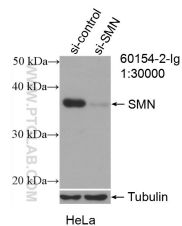
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

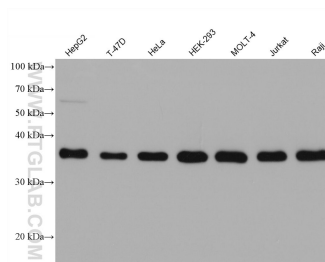
E: proteintech@ptglab.com
W: ptglab.com

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

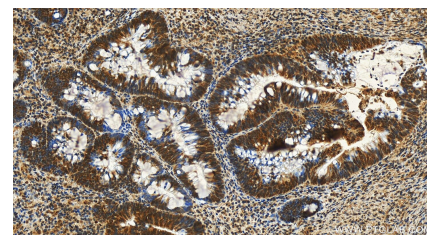
Selected Validation Data



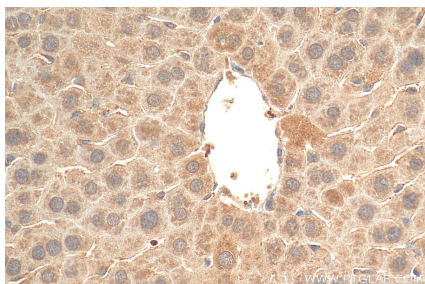
WB result of SMN (Human,Mouse,Rat) antibody (60154-2-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN (Human,Mouse,Rat) transfected HeLa cells.



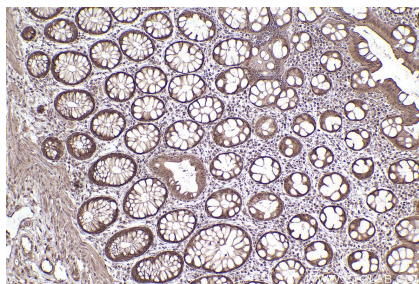
Various lysates were subjected to SDS PAGE followed by western blot with 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



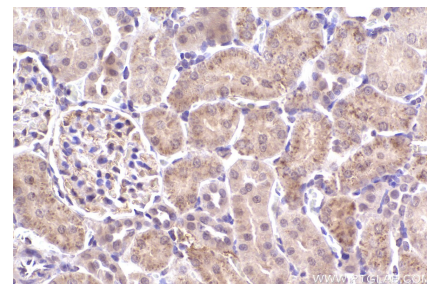
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



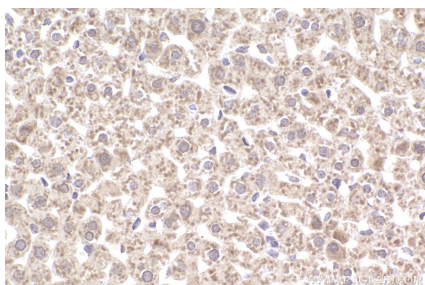
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



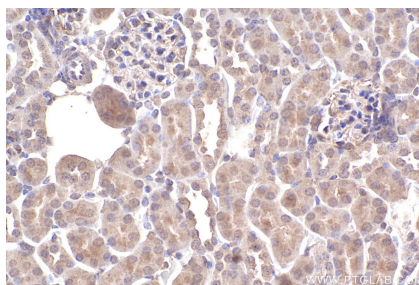
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



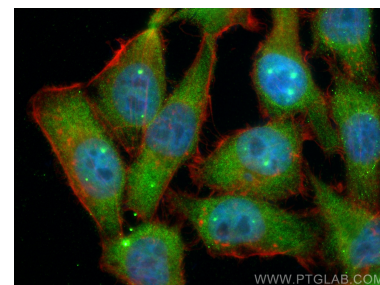
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



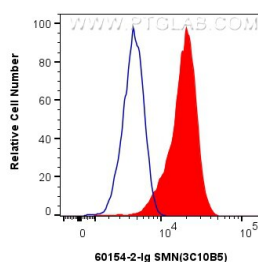
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 60154-2-Ig (SMN (Human,Mouse,Rat) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



1x10⁶ 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).