### For Research Use Only

# SMN (Human-Specific) Monoclonal antibody

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Catalog Number: 60154-1-lg

Featured Product

2 Publications

**Basic Information** 

Catalog Number: 60154-1-lg

GenBank Accession Number:

survival of motor neuron 2,

BC000908 GeneID (NCBI):

Size: 150ul, Concentration: 1000 ug/ml by 6607

**UNIPROT ID:** 

Bradford method using BSA as the

standard; Source:

Isotype:

Mouse

IgG2a

Immunogen Catalog Number: AG14333

Observed MW:

38 kDa

Q16637

Full Name:

centromeric

Calculated MW: 282 aa, 30 kDa

**Purification Method:** 

Protein A purification

CloneNo.: 2C6D9

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:20-1:200 IF/ICC 1:200-1:800

**Applications** 

**Tested Applications:** 

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

**Cited Applications:** 

**Species Specificity:** 

human Cited Species:

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: A375 cells, Raji cells, HepG2 cells, HEK-293 cells,

Jurkat cells

IP: HEK-293 cells,

IHC: human brain tissue, human colon cancer, human heart tissue, human kidney tissue, human 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 60154-1-Ig is specific to human SMN2. It can't recognize mouse and rat SMN.

### Notable Publications

Author	Pubmed ID	Journal	Application
James Palacino	26030728	Nat Chem Biol	
Mandana Arbab	36996170	Science	WB

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

\*\*\* 20ul sizes contain 0.1% BSA

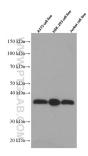
For technical support and original validation data for this product please contact:

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

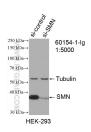
E: proteintech@ptglab.com W: ptglab.com

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

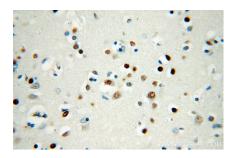
### Selected Validation Data



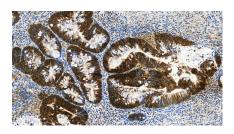
A375, HEK-293, and Jurkat cells were subjected to SDS PAGE followed by western blot with 60154-1-Ig (SMN (Human-Specific) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



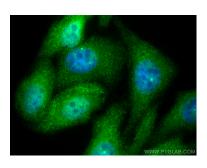
WB result of SMN (Human-Specific) antibody (60154-1-1g; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN (Human-Specific) transfected HEK-293 cells.



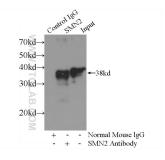
Immunohistochemical analysis of paraffinembedded human brain using 60154-1-1g(SMN (Human-Specific) antibody) at dilution of 1:50 (under 40x lens).



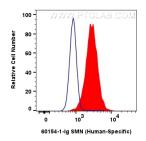
Immunohistochemical analysis of paraffinembedded human colon cancer slide using 60154-1-lg (SMN (Human-Specific) antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN (Human-Specific) antibody (60154-1-1g, Clone: 2C6D9) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).



IP result of anti-SMN (Human-Specific) (IP:60154-1lg, 4ug; Detection:60154-1-lg 1:500) with HEK-293 cells lysate 2440ug.



1x10^6 Jurkat cells were intracellularly stained with 0.4 ug SMN (Human-Specific) Monoclonal antibody (60154-1-1g, Clone: 2C6D9) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-1g, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).