For Research Use Only

# SMN (Human-Specific) Monoclonal antibody, PBS Only

Catalog Number:60154-1-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
60154-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2a

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.:
2C6D9

## Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, Indirect ELISA

Species Specificity:
human

## Background Information

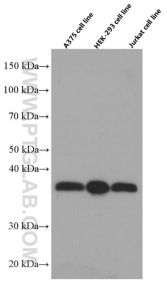
The survival of motor neurons (SMN) genes are the disease genes of spinal muscular atrophy (SMA), a common motor neuron degenerative disease. The level of SMN protein correlates with phenotypic severity of SMA. SMA patients lack a functional SMN1 gene, but they possess an intact SMN2 gene, which though 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.

## Storage

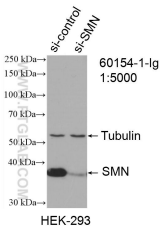
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

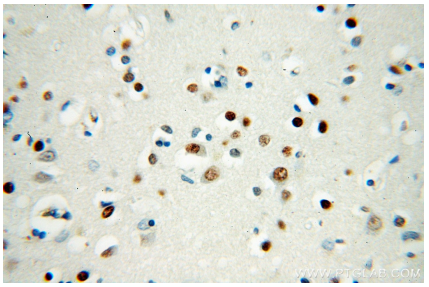
## Selected Validation Data



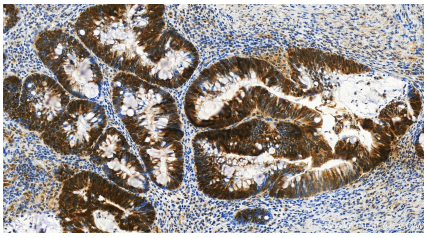

A375, HEK-293, and Jurkat cells were subjected to SDS PAGE followed by western blot with 60154-1-Ig (SMN (Human-Specific) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.



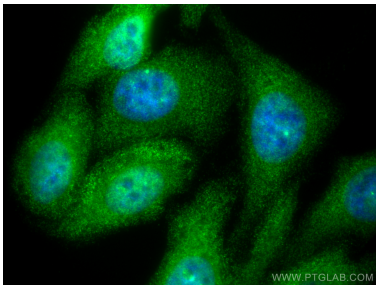

WB result of SMN (Human-Specific) antibody (60154-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN (Human-Specific) transfected HEK-293 cells. This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.



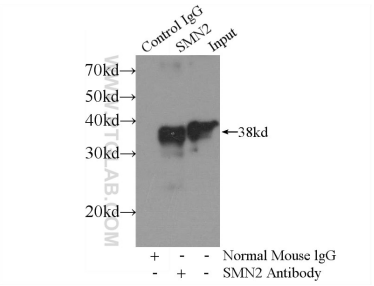
Immunohistochemical analysis of paraffin-embedded human brain using 60154-1-Ig(SMN (Human-Specific) antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.



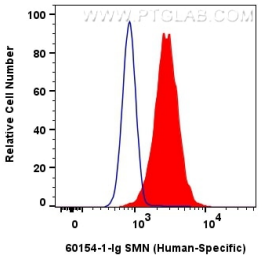
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 60154-1-Ig (SMN (Human-Specific) antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.




Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN (Human-Specific) antibody (60154-1-Ig, Clone: 2C6D9 ) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.




IP result of anti-SMN (Human-Specific) (IP:60154-1-Ig, 4ug; Detection:60154-1-Ig 1:500) with HEK-293 cells lysate 2440ug. This data was developed using the same antibody clone with 60154-1-PBS in a different storage buffer formulation.




1x10^6 Jurkat cells were intracellularly stained with 0.4 ug SMN (Human-Specific) Monoclonal antibody (60154-1-Ig, 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-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 60154-1-