For Research Use Only

SMN (Human-Specific) Monoclonal antibody

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Catalog Number:60154-1-Ig Featured Product 2 Publications

Basic Information

Catalog Number:
60154-1-Ig

Size:
150ul , Concentration: 2766 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG14333

GenBank Accession Number:
BC000908

GeneID (NCBI):
6607

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

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200
IF 1:500-1:2000

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human

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

IP : HEK-293 cells,

IHC : human brain tissue, human heart tissue, human kidney tissue, human liver tissue

IF : 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

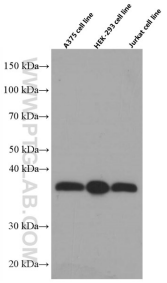
Storage

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

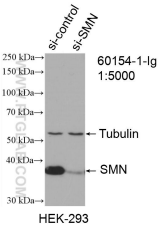
*** 20ul sizes contain 0.1% BSA

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

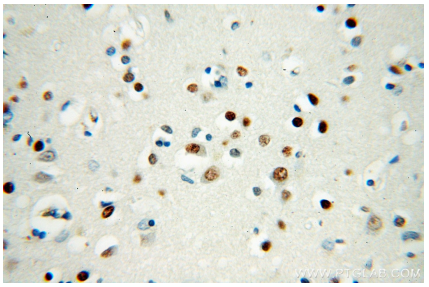
Selected Validation Data



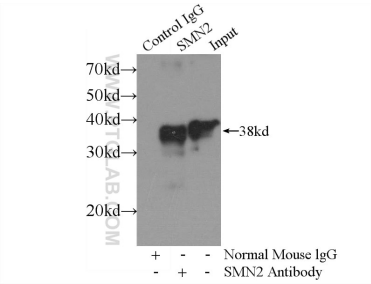
A375, HEK-293, and Jurkat cells were subjected to SDS PAGE followed by western blot with 60154-1-Ig (SMN (Human-Specific) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



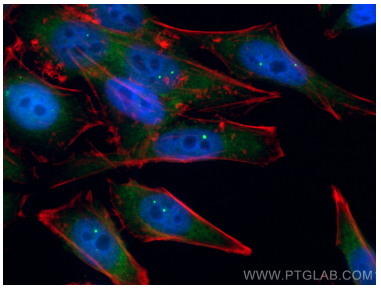
WB result of SMN (Human-Specific) antibody (60154-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMN (Human-Specific) transfected HEK-293 cells.



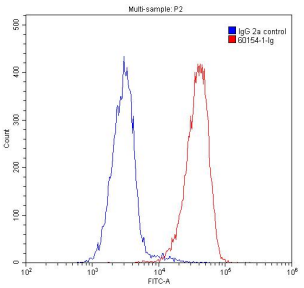
Immunohistochemical analysis of paraffin-embedded human brain using 60154-1-Ig(SMN (Human-Specific) antibody) at dilution of 1:50 (under 40x lens).



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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN (Human-Specific) antibody (60154-1-Ig, Clone: 2C6D9) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 Jurkat cells were stained with 0.20ug SMN (Human-Specific) antibody (60154-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.