For Research Use Only

SMN-Exon7 Monoclonal ANTIBODY

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Antibodies | ELISA kits | Proteins
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Catalog Number:60255-1-Ig 1 Publications

Basic Information

Catalog Number:
60255-1-Ig

Size:
150UL , Concentration: 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG16615

GenBank Accession Number:
BC062723

GeneID (NCBI):
6606

Full Name:
survival of motor neuron 1, telomeric

Calculated MW:
294 aa, 32 kDa

Observed MW:
40 kDa

Purification Method:
Protein G purification

CloneNo.:
3A8G11

Recommended Dilutions:
WB 1:500-1:2000
IF 1:50-1:500

Applications

Tested Applications:
IF, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
mouse

Positive Controls:

WB : HEK-293 cells, HeLa cells, HepG2 cells

IF : HepG2 cells,

Background Information

Spinal muscular atrophy (SMA) is an autosomal recessive neurodegenerative disease characterized by loss of anterior horn cells in the spinal cord and concomitant symmetrical muscle weakness and atrophy (PMID: 16364894). SMA is caused by deletion or mutations of the survival motor neuron (SMN1) gene. SMA patients lack a functional SMN1 gene, but they possess an intact SMN2 gene, which though nearly identical to SMN1, is only partially functional (PMID: 17355180). A large majority of SMN2 transcripts lack exon 7, resulting in production of a truncated, less stable SMN protein (PMID: 10369862). The level of SMN protein correlates with phenotypic severity of SMA. This antibody, 60255-1-Ig, raised against the C-terminal region (275-294aa) encoded by the exon 7.

Notable Publications

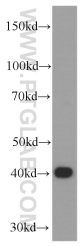
Author	Pubmed ID	Journal	Application
Min Jin	27591939	Stem Cell Res	WB

Storage

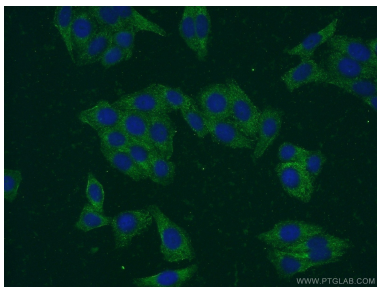
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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



HEK-293 cells were subjected to SDS PAGE followed by western blot with 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).