

For Research Use Only

# SMN-Exon7 Monoclonal antibody

Catalog Number: 60255-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 60255-1-Ig	<b>GenBank Accession Number:</b> BC062723	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 543 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6606	<b>CloneNo.:</b> 3A8G11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q16637	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:1000-1:4000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> survival of motor neuron 1, telomeric	
<b>Immunogen Catalog Number:</b> AG16615	<b>Calculated MW:</b> 294 aa, 32 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, HeLa cells, HepG2 cells
<b>Cited Applications:</b> WB	<b>IHC :</b> mouse heart tissue, mouse brain tissue, mouse pancreas tissue, rat brain tissue, rat heart tissue, rat pancreas tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Mandana Arbab	36996170	Science	WB

## Storage

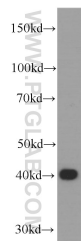
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

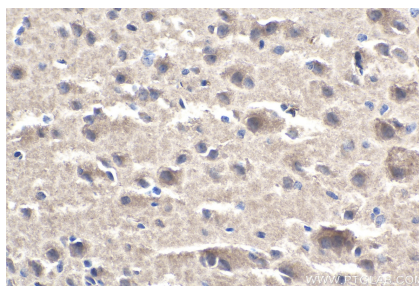
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

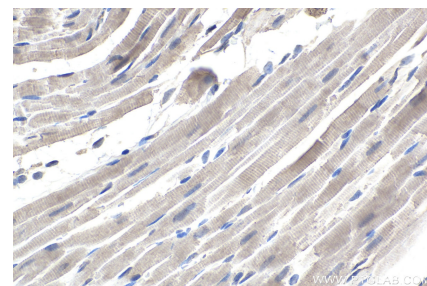
## Selected Validation Data



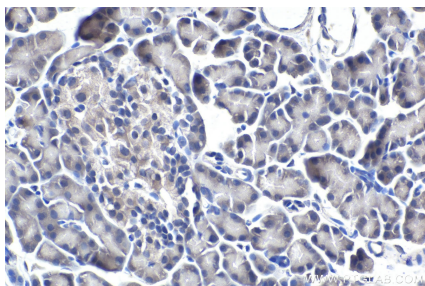
HEK-293 cells were subjected to SDS PAGE followed by western blot with 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



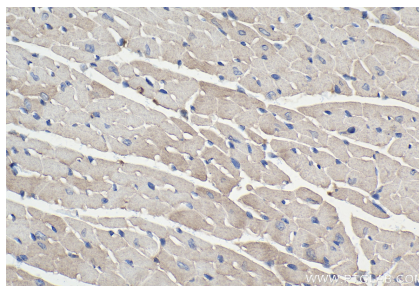
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



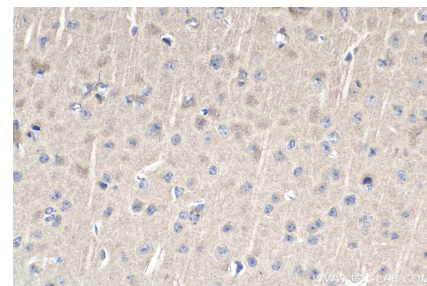
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



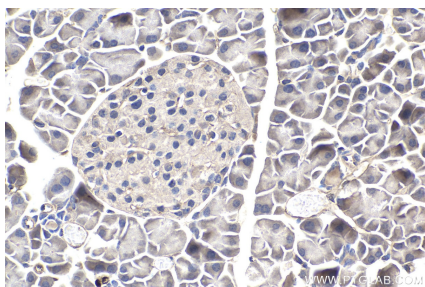
Immunohistochemical analysis of paraffin-embedded rat pancreas tissue slide using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



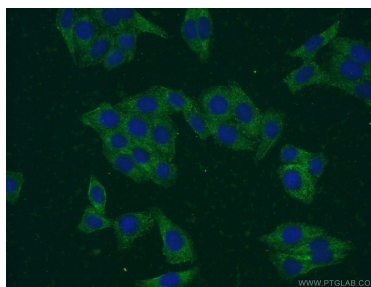
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 60255-1-Ig (SMN-Exon7 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 pancreas tissue slide using 60255-1-Ig (SMN-Exon7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).