

For Research Use Only

# SMNDC1 Polyclonal antibody

Catalog Number:12178-1-AP



## Basic Information

<b>Catalog Number:</b> 12178-1-AP	<b>GenBank Accession Number:</b> BC011234	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 850 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10285	<b>Recommended Dilutions:</b> WB 1:1000-1:3000 IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75940	
<b>Isotype:</b> IgG	<b>Full Name:</b> survival motor neuron domain containing 1	
<b>Immunogen Catalog Number:</b> AG2822	<b>Calculated MW:</b> 238 aa, 27 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat

**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 :** mouse heart tissue, human heart tissue, human lung tissue, human liver tissue, mouse skeletal muscle tissue, rat heart tissue

**IHC :** human lymphoma tissue,

**IF/ICC :** HepG2 cells,

## Background Information

Survival motor neuron domain-containing protein 1 (SMNDC1), also known as survival of motor neuron-related-splicing factor 30 (SPF30) or SMN-related protein (SMNR), is a constituent of the spliceosome complex that plays an essential role in spliceosome assembly by recruiting U4/U5/U6 tri-snRNP to the pre-spliceosomal complex (PMID: 9817934; 11331595; 30904945). Both SMNDC1 and SMN1 contain a highly conserved central Tudor domain which functions as a protein-protein interaction surface and mediates binding to the spliceosomal Sm proteins (PMID: 11331595).

## 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

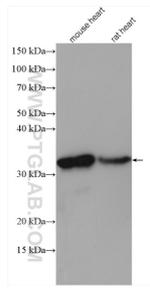
For technical support and original validation data for this product please contact:

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

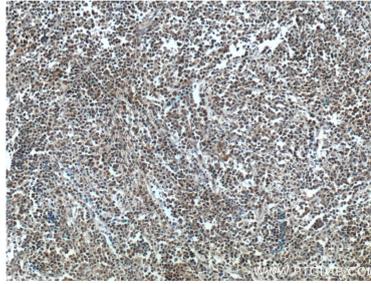
E: proteintech@ptglab.com  
W: ptglab.com

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

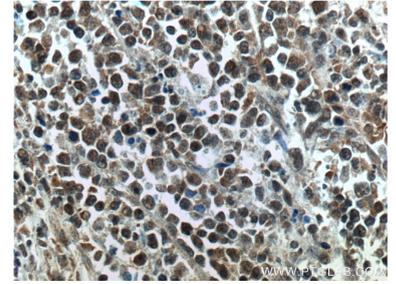
## Selected Validation Data



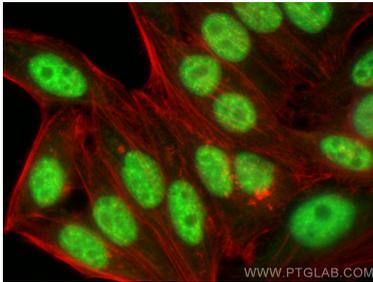
Various lysates were subjected to SDS PAGE followed by western blot with 12178-1-AP (SMNDC1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 12178-1-AP (SMNDC1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 12178-1-AP (SMNDC1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMNDC1 antibody (12178-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).