

For Research Use Only

# SMNDC1 Monoclonal antibody

Catalog Number: 68344-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68344-1-Ig	<b>GenBank Accession Number:</b> BC011234	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10285	<b>CloneNo.:</b> 1B10C2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O75940	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> survival motor neuron domain containing 1	
<b>Immunogen Catalog Number:</b> AG33140	<b>Calculated MW:</b> 238 aa, 27 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, Daudi cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Lisa B Earnest-Noble	36510010	Nat Cancer	WB

## Storage

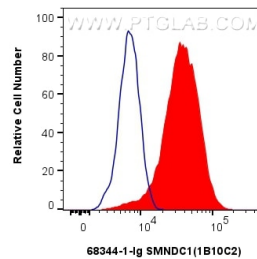
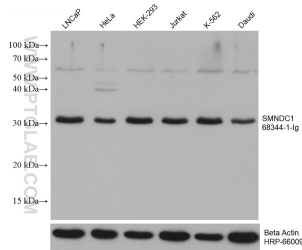
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68344-1-Ig (SMNDC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.

1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.8 ug SMNDC1 Monoclonal antibody (68344-1-Ig, Clone: 1B10C2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.8 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.