

Datasheet for ABIN7504151  
**anti-SMNDC1 antibody**

## 4 Images

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## Overview

Quantity:	100 µg
Target:	SMNDC1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SMNDC1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant full-length human SMNDC1 protein
Isotype:	IgG2b
Specificity:	SPF30 (survival of motor neuron-related-splicing factor 30), also known as SMNDC1 (survival motor neuron domain containing 1) or SMNR (SMN-related protein), is an essential splicing factor required for spliceosome assembly that belongs to the SMN family. It contains one Tudor domain with significant similarity to SMN (survival motor neuron) and is expressed in skeletal muscle, pancreas and heart, localizing to Cajal bodies and nuclear speckles. SPF30 plays an important role in spliceosome assembly and directly interacts with five U snRNPs. The loss of SPF30 causes spliceosome assembly to arrest at prespliceosomes (A complex). This supports a function for SPF30 in mediating the incorporation/recruitment of U4/U5/U6 tri-snRNP to the prespliceosome. In addition, the overexpression of SPF30 can lead to apoptosis.
Cross-Reactivity (Details):	Human.

## Product Details

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

## Target Details

Target: SMNDC1

Alternative Name: SMNDC1 ([SMNDC1 Products](#))

Background: 30 kDa splicing factor SMNrp, MGC106917, MGC112663, SMN related protein, SMNR, SPF30, Splicing factor 30, survival of motor neuron-related, Survival motor neuron domain containing protein 1, Survival of motor neuron related splicing factor 30, SMNDC1  
Cellular localisation: Nucleus. Detected in nuclear speckles containing snRNP and in Cajal (coiled) bodies.

Molecular Weight: 30kDa

Gene ID: 10285, 632093

UniProt: [O75940](#)

## Application Details

Application Notes: Positive Control: HeLa or HepG2 cells.  
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL),  
,Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

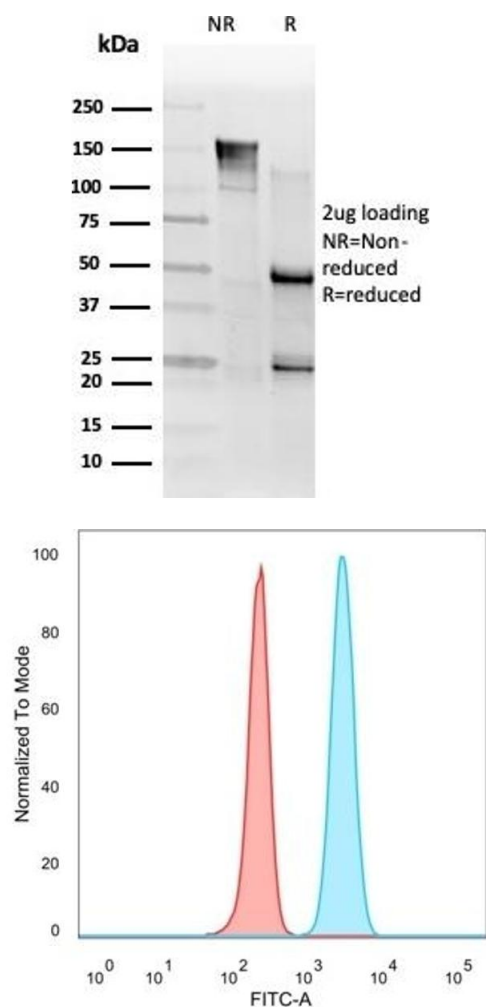
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

Expiry Date: 24 months

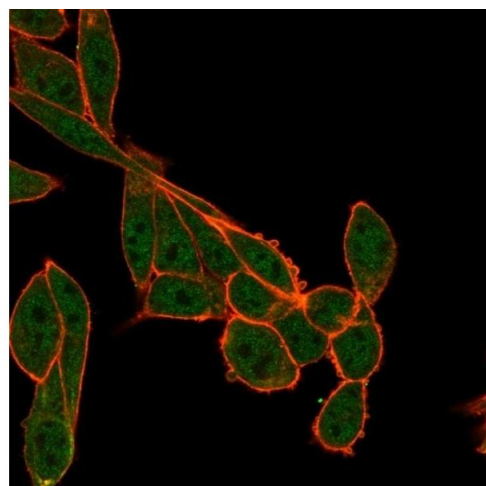


### Western Blotting

**Image 1.** SDS-PAGE Analysis. Purified SMNDC1 Mouse Monoclonal Antibody (PCRP-SMNDC1-1A9). Confirmation of Purity and Integrity of Antibody.

### Flow Cytometry

**Image 2.** Flow Cytometric Analysis of PFA-fixed HeLa cells. SMNDC1 Mouse Monoclonal Antibody (PCRP-SMNDC1-1A9) followed by goat anti-mouse IgG-CF488 (blue), unstained cells (red).



### Immunofluorescence

**Image 3.** Immunofluorescence Analysis of PFA-fixed HeLa cells using SMNDC1 Mouse Monoclonal Antibody (PCRP-SMNDC1-1A9) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7504151.