

Datasheet for ABIN7171024  
**anti-SMN1 antibody (AA 3-194)**

## 3 Images

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	SMN1
Binding Specificity:	AA 3-194
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human Survival motor neuron protein (3-194AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	SMN1
Alternative Name:	SMN1 ( <a href="#">SMN1 Products</a> )
Background:	Background: The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an

## Target Details

important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. Ensures the correct splicing of U12 intron-containing genes that may be important for normal motor and proprioceptive neurons development. Also required for resolving RNA-DNA hybrids created by RNA polymerase II, that form R-loop in transcription terminal regions, an important step in proper transcription termination. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs).

Aliases: BCD541 antibody, Component of gems 1 antibody, Gemin 1 antibody, Gemin-1 antibody, OTTHUMP00000125198 antibody, OTTHUMP00000223567 antibody, OTTHUMP00000223568 antibody, OTTHUMP00000224066 antibody, OTTHUMP00000226924 antibody, SMA 1 antibody, SMA 2 antibody, SMA 3 antibody, SMA 4 antibody, SMA antibody, SMA@ antibody, SMA1 antibody, SMA2 antibody, SMA3 antibody, SMA4 antibody, SMN antibody, SMN\_HUMAN antibody, SMN1 antibody, SMN2 antibody, SMNT antibody, Survival motor neuron protein antibody, Survival of motor neuron 1, telomeric antibody, T-BCD541 antibody

UniProt: [Q16637](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

## Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

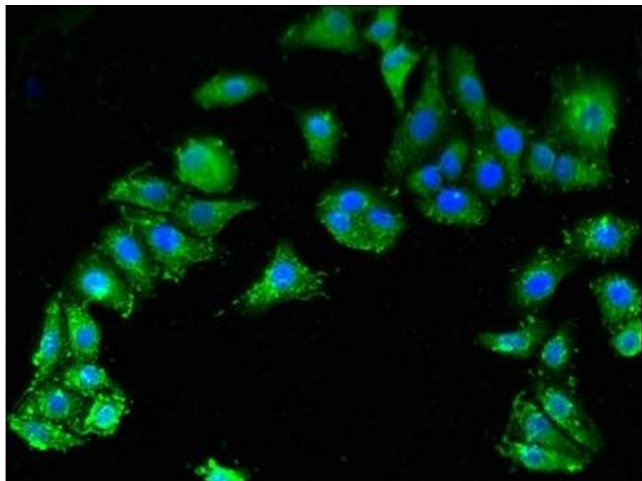
## Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

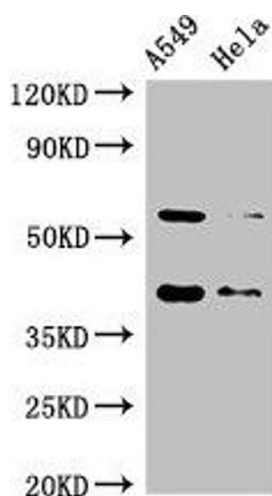
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



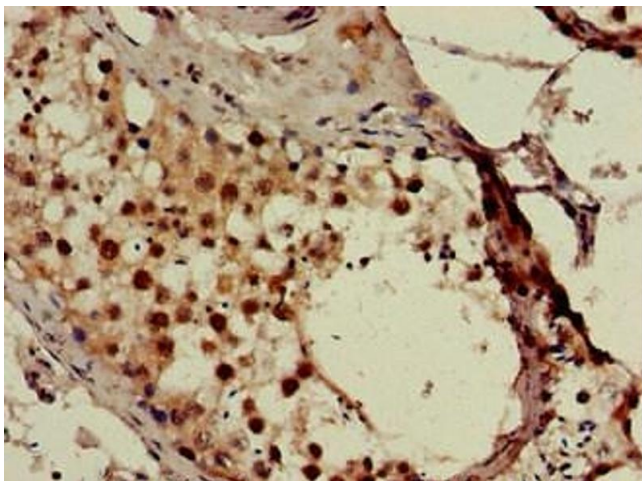
### Immunofluorescence

**Image 1.** Immunofluorescent analysis of HepG2 cells using ABIN7171024 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



### Western Blotting

**Image 2.** Western Blot Positive WB detected in: A549 whole cell lysate, HeLa whole cell lysate All lanes: SMN1 antibody at 2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 32, 29, 31, 28 kDa Observed band size: 40, 60 kDa



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7171024 at dilution of 1:100