Datasheet for ABIN6568829

anti-SMN1 antibody

3 Images

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Overview

Quantity:	200 µL
Target:	SMN1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant protein of human SMN2
Isotype:	IgG
Purification:	Affinity purification

Target Details

Target:	SMN1
Alternative Name:	SMN1 (SMN1 Products)
Background:	Synonyms: BCD541,Component of gems 1,Gemin 1,Gemin-1,OTTHUMP00000125198,OTTHUMP00000223567,OTTHUMP00000223568,OTTHUMP00000224066,OTTHUMP0000022 1,SMA 2,SMA 3,SMA 4,SMA,SMA@,SMA1,SMA2,SMA3,SMA4,SMN,SMN,SMN1,SMN2,SMNT,Survival motor neuron protein of motor neuron 1,telomeric,T-BCD541

Target Details

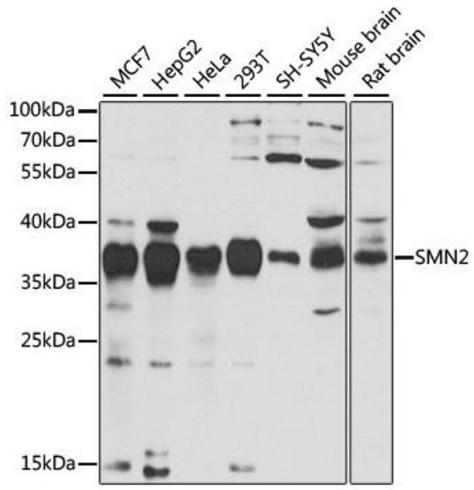
	Background: This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at le genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of sequence have also caused difficulty in determining the organization of this genomic region. The telomeric and centromeri of this gene are nearly identical and encode the same protein. While mutations in the telomeric copy are associated with sp muscular atrophy, mutations in this gene, the centromeric copy, do not lead to disease. This gene may be a modifier of dis caused by mutation in the telomeric copy. The critical sequence difference between the two genes is a single nucleotide in which is thought to be an exon splice enhancer. Note that the nine exons of both the telomeric and centromeric copies are designated historically as exon 1, 2a, 2b, and 3-8. It is thought that gene conversion events may involve the two genes, lead varying copy numbers of each gene. The full length protein encoded by this gene localizes to both the cytoplasm and the n Within the nucleus, the protein localizes to subnuclear bodies called gems which are found near coiled bodies containing h concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric complexes with proteins such as SIP GEMIN4, and also interacts with several proteins known to be involved in the biogenesis of snRNPs, such as hnRNP U prot the small nucleolar RNA binding protein. Four transcript variants encoding distinct isoforms have been described.
Molecular Weight:	Observed_MW: 35kDa Calculated_MW: 27kDa/28kDa/30kDa/31kDa
Gene ID:	6606
UniProt:	Q16637
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Restrictions:	For Research Use only

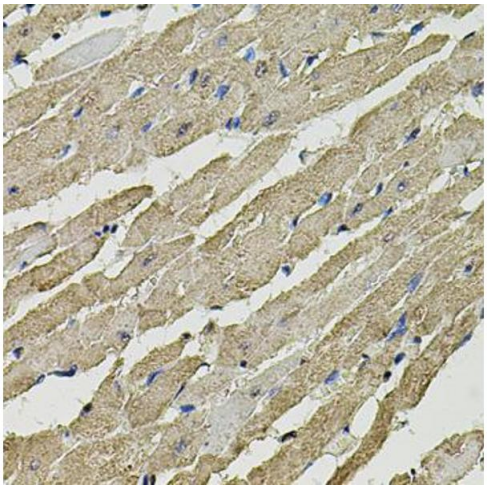
Handling

Concentration:	1 mg/mL
Buffer:	Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



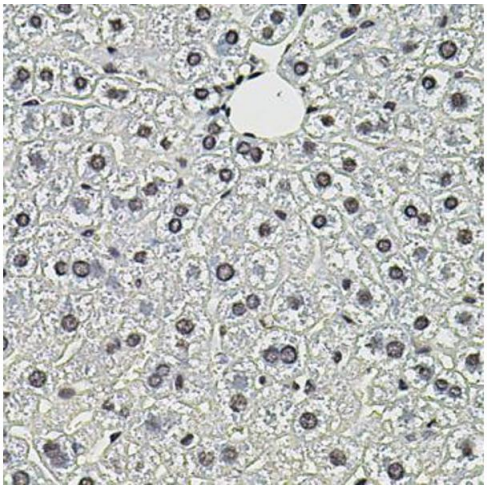
Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using SMN2 antibody.



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded rat heart using SMN2 antibody.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse liver using SMN2 antibody.