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Datasheet for ABIN2778671 anti-SMN1 antibody (N-Term)

5 Images



Overview

Quantity:	100 µL
Target:	SMN1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Pig, Rabbit, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMN1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SMN1
Sequence:	KAVASFKHAL KNGDICETSG KPKTTPKRKP AKKNKSQKKN TAASLQQWKV
Predicted Reactivity:	Dog: 100%, Guinea Pig: 85%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 93%, Rabbit: 85%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against SMN1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	SMN1

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Alternative Name:	SMN1 (SMN1 Products)
Background:	SMN1 localizes to both the cytoplasm and the nucleus. Within the nucleus, the protein localizes
	to subnuclear bodies called gems which are found near coiled bodies containing high
	concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric
	complexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins
	known to be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small
	nucleolar RNA binding protein. This gene is part of a 500 kb inverted duplication on
	chromosome 5q13. This duplicated region contains at least four genes and repetitive elements
	which make it prone to rearrangements and deletions. The repetitiveness and complexity of the
	sequence have also caused difficulty in determining the organization of this genomic region.
	The telomeric and centromeric copies of this gene are nearly identical and encode the same
	protein. However, mutations in this gene, the telomeric copy, are associated with spinal
	muscular atrophy, mutations in the centromeric copy do not lead to disease. The centromeric
	copy may be a modifier of disease caused by mutation in the telomeric copy. The critical
	sequence difference between the two genes is a single nucleotide in exon 7 which is thought to
	be an exon splice enhancer. It is thought that gene conversion events may involve the two
	genes, leading to varying copy numbers of each gene. The protein encoded by this gene
	localizes to both the cytoplasm and the nucleus. Within the nucleus, the protein localizes to
	subnuclear bodies called gems which are found near coiled bodies containing high
	concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric
	complexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins
	known to be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small
	nucleolar RNA binding protein. Two transcript variants are produced by this gene.
	Alias Symbols: BCD541, SMA, SMA1, SMA2, SMA3, SMA4, SMA@, SMN, SMNT, T-BCD541,
	SMN2
	Protein Interaction Partner: COPA, RNF2, BMI1, KDM1A, SMN1, RN7SL1, UBC, HDAC11, MIB1,
	GEMIN4, DICER1, DDX20, PAN2, RBFOX2, HNRNPUL1, IQCB1, UBL4A, SMN2, NOS2, vpr,
	GEMIN2, SRP68, SRP54, SRP19, SRP9, RNU2-1, RNU1-1, GEMIN5, MDC1, RBM25, COIL, SRSF5
	HSPB1, CUL3, DDAH2, MAST2, SMC5, R
	Protein Size: 262
Molecular Weight:	28 kDa
Gene ID:	6606
NCBI Accession:	NM_022874, NP_075012

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Target Details

Pathways:

Ribonucleoprotein Complex Subunit Organization

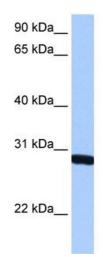
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 262 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

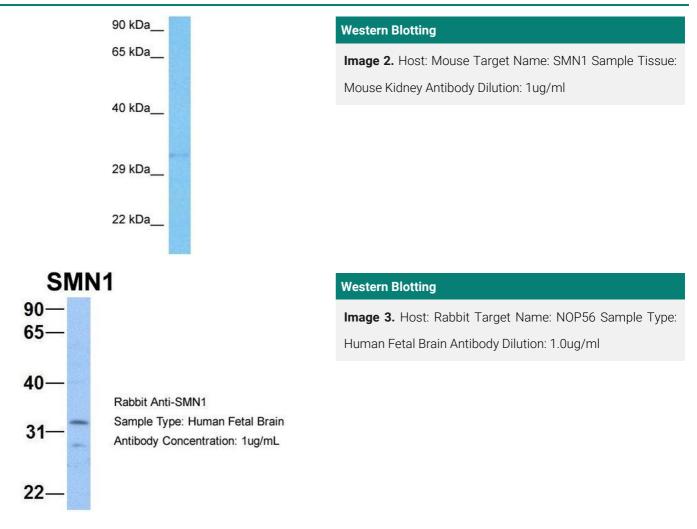


Western Blotting

Image 1. WB Suggested Anti-SMN1 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2

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Images



Please check the product details page for more images. Overall 5 images are available for ABIN2778671.