Rabbit SMN1 Polyclonal Antibody | anti-SMN1 antibody

SMN1 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA174180	**Rabbit**	**Human, Mouse, Rat**	**Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

SMN1; Polyclonal Antibody; SMN1 Polyclonal Antibody; BCD541; Component of gems 1; Gemin 1; Gemin-1; OTTHUMP00000125198; OTTHUMP00000223567; OTTHUMP00000223568; OTTHUMP00000224066; OTTHUMP00000226924; SMA 1; SMA 2; SMA 3; SMA 4; SMA; SMA@; SMA1; SMA2; SMA3; SMA4; SMN; SMN2; SMNT; Survival motor neuron protein; Survival of motor neuron 1; telomeric; T-BCD541; anti-SMN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.4
Sequence Length	262
Applicable Applications for anti-SMN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human SMN2
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES

IHC (Immunohiostchemistry)
Immunohistochemistry of paraffin-embedded mouse liver using SMN2 antibody.

WB (Western Blot)
Western blot analysis of extracts of various cell lines, using SMN2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SMN1 antibody	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. While mutations in the telomeric copy are associated with spinal muscular atrophy, mutations in this gene, the centromeric copy, do not lead to disease. This gene 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. 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, leading to varying copy numbers of each gene. The full length 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. Four transcript variants encoding distinct isoforms have been described.
Product Categories/Family for anti-SMN1 antibody	Cancer; Epigenetics and Nuclear Signaling; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507091
NCBI GeneID	6606
NCBI Accession #	NP_000335.1
NCBI GenBank Nucleotide #	NM_000344.3
UniProt Accession #	Q16637; Q13119; Q549U5; Q96J51; A8K0V4
Molecular Weight	Calculated: 27kDa; 28kDa; 30kDa; 31kDa Observed: 35kDa
NCBI Official Full Name	survival motor neuron protein isoform d
NCBI Official Synonym Full Names	survival of motor neuron 1, telomeric
NCBI Official Symbol	SMN1
NCBI Official Synonym Symbols	SMA; SMN; SMA1; SMA2; SMA3; SMA4; SMA@; SMNT; BCD541; GEMIN1; TDRD16A; T-BCD541
NCBI Protein Information	survival motor neuron protein
UniProt Protein Name	Survival motor neuron protein
UniProt Gene Name	**SMN1**
UniProt Synonym Gene Names	SMN; SMNT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/smn1-antibody-immunohistochemistry-western-blot-elisa/174180