

Rabbit SMN1 Polyclonal Antibody | anti-SMN1 antibody

SMN1 Rabbit pAb

CATALOG # AAA281636	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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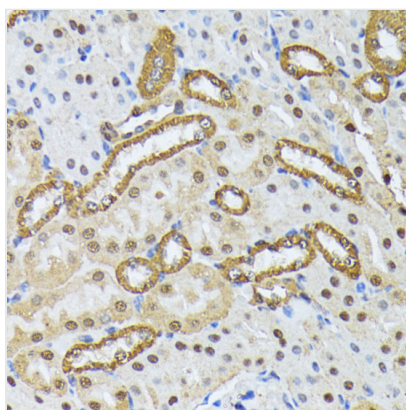
PRODUCT SYNONYMS

SMN1; Polyclonal Antibody; SMN1 Rabbit pAb; BCD541; GEMIN1; SMA; SMA1; SMA2; SMA3; SMA4; anti-SMN1 antibody

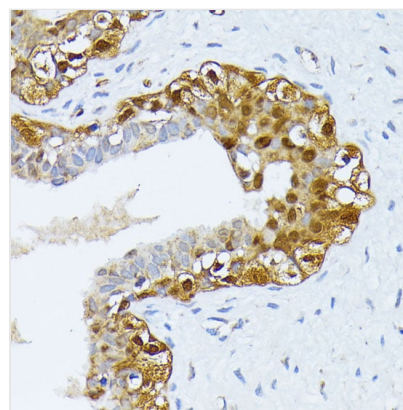
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Sequence	SQKKNTAASL QQWKVGDKCS AIWSEDGCIY PATIASIDFK RETCVVVYTG YGNREEQNLS DLLSPICEVA N
Applicable Applications for anti-SMN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 80-150 of human SMN1 (NP_000335.1).
Cellular Location	Cajal body, Cytoplasm, Cytoplasmic granule, Nucleus, Z line, gem, myofibril, sarcomere
Positive Samples	Mouse liver, Mouse testis, Rat liver, Rat testis
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

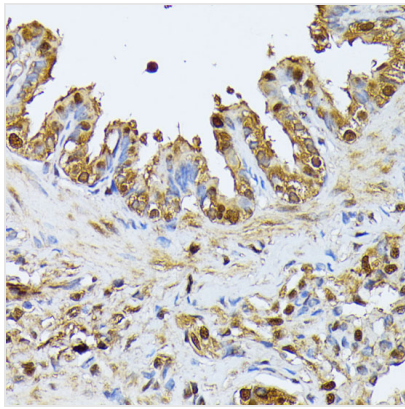
IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse kidney using SMN1 antibody at dilution of 1:100 (40x lens).

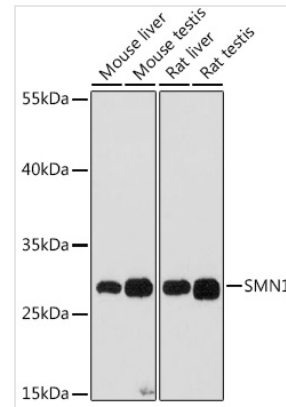

IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human breast using SMN1 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat lung using SMN1 antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using SMN1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-SMN1 antibody

Background: This gene is part of a 500 kb inverted duplication on chromosome 5q13. 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. Note that the nine exons of both the telomeric and centromeric copies are designated historically as exon 1, 2a, 2b, and 3-8. 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. Multiple transcript variants encoding distinct isoforms have been described.

NCBI AND UNIPROT INFORMATION

NCBI GI #	663070994
NCBI GeneID	6606
NCBI Accession #	NP_001284644.1
NCBI GenBank Nucleotide #	NM_001297715.1
UniProt Accession #	Q16637; Q13119; Q549U5; Q96J51; A8K0V4
Molecular Weight	31,849 Da
NCBI Official Full Name	survival motor neuron protein isoform a
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; gemin-1; component of gems 1; tudor domain containing 16A; survival motor neuron 1 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://www.aaabiotech.com/polyclonal/smn1-antibody-immunohistochemistry-western-blot-elisa/281636>