

Rabbit SMNDC1 Polyclonal Antibody | anti-SMNDC1 antibody

SMNDC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325907	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SMNDC1; Polyclonal Antibody; SMNDC1 Antibody; 30 kDa splicing factor SMNrp; MGC106917; MGC112663; SMN related protein; SMN-related protein; smndc1; SMNR; SPF30; SPF30_HUMAN; Splicing factor 30; survival of motor neuron-related; Survival motor neuron domain containing 1; Survival motor neuron domain containing protein 1; Survival motor neuron domain-containing protein 1; Survival of motor neuron related splicing factor 30; Survival of motor neuron-related-splicing factor 30; anti-SMNDC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SMNDC1 antibody detects endogenous levels of total SMNDC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	238
Applicable Applications for anti-SMNDC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SMNDC1
Subcellular Location	Nucleus Speckle. Nucleus > Cajal Body. Detected in nuclear speckles containing snRNP and in cajal (coiled) bodies.
Tissue Specificity	Detected at intermediate levels in skeletal muscle, and at low levels in heart and pancreas.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (91%), Dog (100%), Chicken (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325907 at 1/100 staining Mouse pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of 721-B lysate using SMNDC1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SMNDC1 antibody	Description: SPF30 (survival of motor neuron-related-splicing factor 30), also known as SMNDC1 (survival motor neuron domain containing 1) or SMNR (SMN-related protein), is an essential splicing factor required for spliceosome assembly that belongs to the SMN family. It contains one Tudor domain with significant similarity to SMN (Survival Motor Neuron) and is expressed in skeletal muscle, pancreas and heart, localizing to Cajal bodies and nuclear speckles. SPF30 plays an important role in spliceosome assembly and directly interacts with five U snRNPs. The loss of SPF30 causes spliceosome assembly to arrest at prespliceosomes (A complex). This supports a function for SPF30 in mediating the incorporation/recruitment of U4/U5/U6 tri-snRNP to the prespliceosome. In addition, the overexpression of SPF30 can lead to apoptosis. Function: Necessary for spliceosome assembly. Overexpression causes apoptosis. Subunit Structure: Associates with spliceosomes. Associates with U4/U5/U6 tri-snRNP and with U2 snRNP. Similarity: The Tudor domain mediates association with dimethylarginines, which are common in snRNP proteins. Belongs to the SMN family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5032113
NCBI GeneID	10285
NCBI Accession #	NP_005862.1
NCBI GenBank Nucleotide #	NM_005871.3
UniProt Accession #	O75940; Q5T3K6; B2RA27; D3DRB1
Molecular Weight	Observed: 27 kDa Predicted: 27 kDa
NCBI Official Full Name	survival of motor neuron-related-splicing factor 30
NCBI Official Synonym Full Names	survival motor neuron domain containing 1
NCBI Official Symbol	SMNDC1
NCBI Official Synonym Symbols	SMNR; SPF30; TDRD16C
NCBI Protein Information	survival of motor neuron-related-splicing factor 30
UniProt Protein Name	Survival of motor neuron-related-splicing factor 30
UniProt Gene Name	SMNDC1
UniProt Synonym Gene Names	SMNR; SPF30

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.