SMNDC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMNDC1, Polyclonal Antibody
Full Product Name	SMNDC1, NT (SMNDC1, SMNR, SPF30, Survival of motor neuron-related-splicing factor 30, 30kD splicing factor SMNrp, SMN-related protein, Survival motor neuron domain-containing protein 1) (MaxLight 650)
Product Gene Name	anti-SMNDC1 antibody
Product Synonym Names	SMNDC1; SMNR; SPF30; Survival of motor neuron-related-splicing factor 30; 30kD splicing factor SMNrp; SMN-related protein; Survival motor neuron domain-containing protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	238
OMIM	603519
3D Structure	ModBase 3D Structure for O75940
Immunogen	SMNDC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19~48 amino acids from the N-terminal region of human SMNDC1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-SMNDC1 antibody	Antibodies; Splicing Factors
Applications Tested/Suitable for anti-SMNDC1 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-SMNDC1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SMNDC1 antibody	This protein is a paralog of SMN1 gene, which encodes the survival motor neuron protein, mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. The protein encoded by this gene is a nuclear protein that has been identified as a constituent of the spliceosome complex. This protein is differentially expressed, with abundant levels in skeletal muscle, and may share similar cellular function as the SMN1 gene.
Product References and Citations for anti-SMNDC1 antibody	Little, J.T. J. Biol. Chem. 283 (13), 8145-8152 (2008). Ewing, R.M., Mol. Syst. Biol. 3, 89 (2007). Beausoleil, S.A., Nat. Biotechnol. 24 (10), 1285-1292 (2006).

Other Notes	Small volumes of anti-SMNDC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMNDC1 purchase	MBS6348987 is an antibody targeting SMNDC1. Also known as SMNDC1, NT (SMNDC1, SMNR, SPF30, Survival of motor neuron-related-splicing factor 30, 30kD splicing factor SMNrp, SMN-related protein, Survival motor neuron domain-containing protein 1) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMNDC1. It may not necessarily be applicable to this product.

NCBI GI #	37087924
NCBI GeneID	10285
NCBI Accession #	O75940.1
UniProt Primary Accession #	O75940
UniProt Secondary Accession #	Q5T3K6; B2RA27; D3DRB1
UniProt Related Accession #	O75940
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
UniProt Protein Name	Survival of motor neuron-related-splicing factor 30
UniProt Synonym Protein Names	30 kDa splicing factor SMNrp; SMN-related protein; Survival motor neuron domain-containing protein 1
Protein Family	Survival of motor neuron-related-splicing factor
UniProt Gene Name	SMNDC1
UniProt Synonym Gene Names	SMNR; SPF30
UniProt Entry Name	SPF30_HUMAN
NCBI Protein Information	survival of motor neuron-related-splicing factor 30; SMN-related protein; tudor domain containing 16C; 30 kDa splicing factor SMNrp; survival motor neuron domain-containing protein 1; splicing factor 30, survival of motor neuron-related
NCBI Summary for SMNDC1	This gene is a paralog of SMN1 gene, which encodes the survival motor neuron protein, mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. The protein encoded by this gene is a nuclear protein that has been identified as a constituent of the spliceosome complex. This gene is differentially expressed, with abundant levels in skeletal muscle, and may share similar cellular function as the SMN1 gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SMNDC1	SPF30: Necessary for spliceosome assembly. Overexpression causes apoptosis. Belongs to the SMN family. Protein type: Spliceosome; RNA processing; RNA splicing; RNA-binding Chromosomal Location of Human Ortholog: 10q23 Cellular Component: nucleoplasm; spliceosome; Cajal body; intermediate filament cytoskeleton; cytoplasm; nuclear speck; nucleus Molecular Function: protein binding Biological Process: RNA splicing, via transesterification reactions; apoptosis; RNA splicing; spliceosome assembly; mRNA processing

Research Articles on SMNDC1	**1.** The binding specificity and affinity of the Tudor domains of TDRD3, SMN and SPF30 proteins were characterized quantitatively.
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