Datasheet for ABIN6719629

anti-SNRPN antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	SNRPN
Binding Specificity:	AA 11-39, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SNRPN antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SNRPN Antibody Picoband® (monoclonal, 6F12)
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SNRPN, identical to the related mouse and rat sequences.
Sequence:	QHIDYRMRCI LQDGRIFIGT FKAFDKHMN
Clone:	6F12
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SNRPN Antibody Picoband® (monoclonal, 6F12) (ABIN6719629). Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong

Product Details

	signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SNRPN
Alternative Name:	SNRPN (SNRPN Products)
Background:	Synonyms: Small nuclear ribonucleoprotein-associated protein N, snRNP-N, Sm protein D, Sm-D, Sm protein N, Sm-N, SmN, Tissue-specific-splicing protein, SNRPN, HCERN3, SMN Tissue Specificity: Expressed in brain and lymphoblasts. Background: SNRPN (Small Nuclear Ribonucleoprotein Polypeptide N), also called SMN, is a bicistronic imprinted gene that encodes 2 polypeptides, the SmN splicing factor, which is involved in RNA processing, and the SNRPN upstream reading frame (SNURF) polypeptide. The protein encoded by this gene is one polypeptide of a small nuclear ribonucleoprotein complex and belongs to the snRNP SMB/SMN family. SNRPN also encodes a long alternatively spliced transcript containing several small nucleolar RNAs (snoRNAs) and extends downstream to partially overlap the UBE3A gene in the antisense orientation. PWS arises from loss of function of genes in this region expressed exclusively from the paternal chromosome, suggesting that SNRPN may play a role in its etiology. The SNRPN gene is mapped on 15q11.2. Analysis of maternal DNA and of SNRPN cDNA confirmed that the maternal allele is not expressed in fetal brain and heart. Deletions in the transcription unit of the imprinted SNRPN gene occur in patients who have PWS or Angelman syndrome because of a parental imprint switch failure in this chromosomal domain.
Molecular Weight:	26 kDa
Gene ID:	6638
UniProt:	P63162

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells 1.Bielinska, B., Blaydes, S. M., Buiting, K., Yang, T., Krajewska-Walasek, M., Horsthemke, B., Brannan, C. I. De novo deletions of SNRPN exon 1 in early human and mouse embryos result in a paternal to maternal imprint switch. Nature Genet. 25: 74-78, 2000. 2.Cattanach, B. M., Barr, J.

Application Details

	A., Evans, E. P., Burtenshaw, M., Beechey, C. V., Leff, S. E., Brannan, C. I., Copeland, N. G., Jenkins, N. A., Jones, J. A candidate mouse model for Prader-Willi syndrome which shows an absence of Snrpn expression. Nature Genet. 2: 270-274, 1992. 3.Geuns, E., De Rycke, M., Van Steirteghem, A., Liebaers, I. Methylation imprints of the imprint control region of the SNRPN-gene in human gametes and preimplantation embryos. Hum. Molec. Genet. 12: 2873-2879, 2003.
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.