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SNRP70 Rabbit pAb

Catalog # AP96870

Product Information

Application	WB
Primary Accession	P08621
Other Accession	P08621
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51557
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SNRP70
Epitope Specificity	101-200/437
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 RRM (RNA recognition motif) domain.
SUBUNIT	U1 snRNP is composed of the 7 core Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in an heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP, and at least three U1 snRNP-specific proteins SNRNP70/U1-70K, SNRPA/U1-A and SNRPC/U1-C. Interacts with SCNM1. Found in a pre-mRNA splicing complex with SFRS4, SFRS5, SNRNP70, SNRPA1, SRRM1 and SRRM2. Found in a pre-mRNA exonic splicing enhancer (ESE) complex with SNRNP70, SNRPA1, SRRM1 and TRA2B/SFRS10. Interacts with dephosphorylated SFRS13A and SFPQ. Interacts with NUDT21/CPSF5, CPSF6, SCAF11, and ZRANB2.
Post-translational modifications	The N-terminus is blocked. Extensively phosphorylated on serine residues in the C-terminal region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SNRP70 is an RNA-binding protein that is a specific component of the U1 small nuclear ribonucleoprotein complex and constitutes the major anti-(U1) RNP autoimmune antigen. SNRP70 contains 1 RRM (RNA recognition motif) domain and mediates the splicing of pre-mRNA by binding to the loop I region of U1-snRNA.

Additional Information

Gene ID	6625
Other Names	RNPU1Z; RPU1; SNRP70; Snp1; U1-70K; U170K; U1AP; U1RNP; 2700022N21Rik; 3200002N22Rik; Rnu1p70; Rnulp70; Srnp70; U1-70; RU17_HUMAN; SNRNP70; U1 snRNP 70 kDa; U1AP1; RU17_MOUSE; small nuclear ribonucleoprotein U1 subunit 70; small nuclear ribonucleoprotein

	70kDa (RNP antigen); small nuclear ribonucleoprotein 70kDa (U1); small nuclear ribonucleoprotein, U1 70kDa subunit
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SNRNP70
Synonyms	RNPU1Z, RPU1, SNRP70, U1AP1
Function	Component of the spliceosomal U1 snRNP, which is essential for recognition of the pre-mRNA 5' splice-site and the subsequent assembly of the spliceosome (PubMed:19325628, PubMed:25555158). SNRNP70 binds to the loop I region of U1-snRNA (PubMed:19325628, PubMed:2467746, PubMed:25555158).
Cellular Location	Nucleus speckle. Nucleus, nucleoplasm. Note=Colocalizes with SCNM1 and LUC7L2 in nuclear speckles. {ECO:0000250|UniProtKB:Q62376}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.