

Rabbit SNRP70 Polyclonal Antibody | anti-SNRNP70 antibody

SNRP70 Antibody

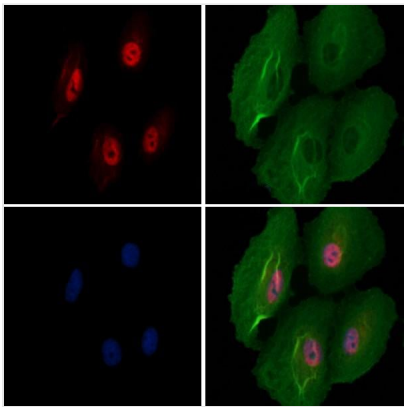
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329090	Rabbit	Human, Mouse, Rat Predicted Reactivity: Zebrafish(86%), Bovine(100%), Sheep(100%), Rabbit(100%), Xenopus(100%)	ELISA

PRODUCT SYNONYMS

SNRP70; Polyclonal Antibody; SNRP70 Antibody; RNPU1Z; Rnulp70; RPU1; Small nuclear ribonucleoprotein 70 (U1); Small nuclear ribonucleoprotein 70kD polypeptide (RNP antigen); Small nuclear ribonucleoprotein 70kDa (U1); Small nuclear ribonucleoprotein 70kDa polypeptide (RNP antigen); snRNP70; Snrp 70; U1 70K; U1 small nuclear ribonucleoprotein 70 kDa; U1 small nuclear ribonucleoprotein polypeptide A; U1 snRNP 70 kDa; U170K; U1AP; U1AP1; U1RNP; anti-SNRNP70 antibody

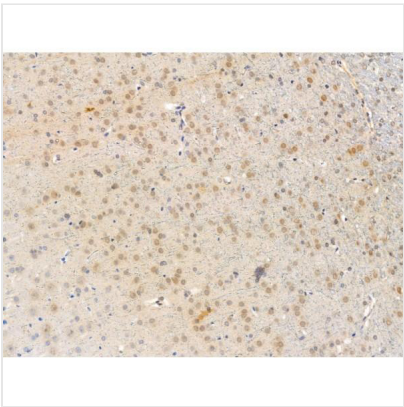
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Zebrafish(86%), Bovine(100%), Sheep(100%), Rabbit(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SNRP70 Antibody detects endogenous levels of total SNRP70.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	428
Applicable Applications for anti-SNRNP70 antibody	ELISA
Immunogen	A synthesized peptide derived from human SNRP70, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



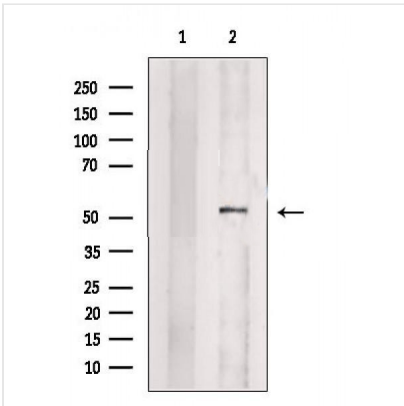
IF (Immunofluorescence)

AAA329090 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329090) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

AAA329090 at 1/100 staining Rat brain 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from B16F10 cells, using SNRP70 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SNRNP70 antibody	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:2467746, PubMed:19325628, PubMed:25555158). Truncated isoforms that lack the RRM domain cannot bind U1-snRNA. Truncated isoforms that lack the RRM domain cannot bind U1-snRNA. Post Translational Modifications: The N-terminus is blocked. Extensively phosphorylated on serine residues in the C-terminal region. Subcellular Location: Nucleus speckle. Nucleus>Nucleoplasm. Note: Colocalizes with SCNM1 and LUC7L2 in nuclear speckles. Subunit Structure: Component of the U1 snRNP (PubMed:19325628, PubMed:21113136, PubMed:25555158). The U1 snRNP is composed of the U1 snRNA and the 7 core Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a 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 (PubMed:19325628, PubMed:21113136, PubMed:25555158). Interacts with SCNM1 (By similarity). Found in a pre-mRNA splicing complex with SFRS4, SFRS5, SNRNP70, SNRPA1, SRRM1 and SRRM2 (PubMed:9531537). Found in a pre-mRNA exonic splicing enhancer (ESE) complex with SNRNP70, SNRPA1, SRRM1 and TRA2B/SFRS10 (PubMed:10339552). Interacts with dephosphorylated SFRS13A and SFPQ (PubMed:11514619, PubMed:14765198). Interacts with NUDT21/CPSF5, CPSF6, SCAF11, and ZRANB2 (PubMed:14561889, PubMed:11448987, PubMed:9447963). Interacts with GEMIN5 (PubMed:25911097). Interacts with FUS. Similarity: The RRM domain mediates interaction with U1 RNA.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	666637959
NCBI GeneID	6625
NCBI Accession #	NP_001287998.1
NCBI GenBank Nucleotide #	NP_001287998.1
UniProt Accession #	P08621
Molecular Weight	Observed Molecular Weight: (Observed)51kD. Predicted Molecular Weight: (Calculated)52kDa.
NCBI Official Full Name	U1 small nuclear ribonucleoprotein 70 kDa isoform 2
NCBI Official Synonym Full Names	small nuclear ribonucleoprotein U1 subunit 70
NCBI Official Symbol	SNRNP70
NCBI Official Synonym Symbols	RPU1; Snp1; U1AP; U170K; U1RNP; RNPU1Z; SNRP70; U1-70K
NCBI Protein Information	U1 small nuclear ribonucleoprotein 70 kDa
UniProt Protein Name	U1 small nuclear ribonucleoprotein 70 kDa
UniProt Gene Name	SNRNP70
UniProt Synonym Gene Names	RNPU1Z; RPU1; SNRP70; U1AP1; U1 snRNP 70 kDa; U1-70K; snRNP70
UniProt Entry Name	RU17_HUMAN

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.