

SNUPN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16617c

Product Information

Application	WB, E
Primary Accession	O95149
Other Accession	NP_001036046.1 , NP_005692.1 , NP_001036053.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35957
Calculated MW	41143
Antigen Region	200-228

Additional Information

Gene ID	10073
Other Names	Snurportin-1, RNA U transporter 1, SNUPN, RNUT1, SPN1
Target/Specificity	This SNUPN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 200-228 amino acids from the Central region of human SNUPN.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SNUPN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SNUPN
Synonyms	RNUT1, SPN1
Function	Functions as an U snRNP-specific nuclear import adapter. Involved in the

trimethylguanosine (m3G)-cap-dependent nuclear import of U snRNPs. Binds specifically to the terminal m3G-cap U snRNAs.

Cellular Location

Nucleus. Cytoplasm Note=Nucleoplasmic shuttling protein. Its nuclear import involves the nucleocytoplasmic transport receptor importin beta (PubMed:10209022, PubMed:12095920). It is re-exported to the cytoplasm by the XPO1- dependent nuclear export receptor pathway (PubMed:10209022)

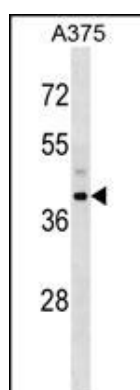
Background

The nuclear import of the spliceosomal snRNPs U1, U2, U4 and U5, is dependent on the presence of a complex nuclear localization signal. The latter is composed of the 5'-2,2,7-terminal trimethylguanosine (m3G) cap structure of the U snRNA and the Sm core domain. The protein encoded by this gene interacts specifically with m3G-cap and functions as an snRNP-specific nuclear import receptor. Alternatively spliced transcript variants encoding the same protein have been identified for this gene.

References

Goette, M., et al. Biophys. J. 97(2):581-589(2009)
Monecke, T., et al. Science 324(5930):1087-1091(2009)
Ospina, J.K., et al. Mol. Biol. Cell 16(10):4660-4671(2005)
Stelzl, U., et al. Cell 122(6):957-968(2005)
Strasser, A., et al. EMBO J. 24(13):2235-2243(2005)

Images



SNUPN Antibody (Center) (Cat. #AP16617c) western blot analysis in A375 cell line lysates (35ug/lane). This demonstrates the SNUPN antibody detected the SNUPN protein (arrow).

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