

RNUT1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant RNUT1.

Catalog # AT3683a

Product Information

Application	WB, IF
Primary Accession	O95149
Other Accession	BC004203
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	2B2-1B4
Calculated MW	41143

Additional Information

Gene ID	10073
Other Names	Snurportin-1, RNA U transporter 1, SNUPN, RNUT1, SPN1
Target/Specificity	RNUT1 (AAH04203, 1 a.a. ~ 360 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RNUT1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

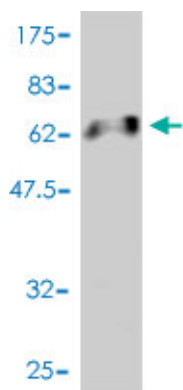
The nuclear import of the spliceosomal snRNPs U1, U2, U4 and U5, is dependent on the presence of a complex nuclear localization signal. The latter is composed of the 5'-2,2,7-terminal trimethylguanosine (m3G) cap structure of the U snRNA and the Sm core domain. The protein encoded by this gene interacts 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

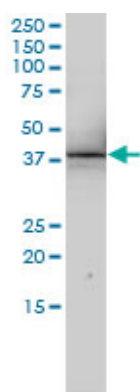
Molecular determinants of snurportin 1 ligand affinity and structural response upon binding. Goette M, et al. Biophys J, 2009 Jul 22. PMID 19619473. Crystal structure of the nuclear export receptor CRM1 in complex

with Snurportin1 and RanGTP. Monecke T, et al. Science, 2009 May 22. PMID 19389996. A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070. Cross-talk between snurportin1 subdomains. Ospina JK, et al. Mol Biol Cell, 2005 Oct. PMID 16030253. Structural basis for m3G-cap-mediated nuclear import of spliceosomal UsnRNPs by snurportin1. Strasser A, et al. EMBO J, 2005 Jul 6. PMID 15920472.

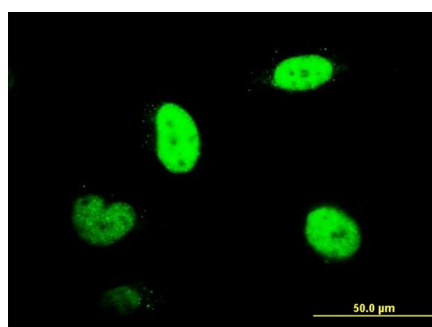
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (65.34 kDa) .



RNUT1 monoclonal antibody (M01), clone 2B2-1B4
Western Blot analysis of RNUT1 expression in Jurkat (Cat # AT3683a)



Immunofluorescence of monoclonal antibody to RNUT1 on HeLa cell. [antibody concentration 10 ug/ml]

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