

ARG40912 anti-hnRNP U antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes hnRNP U
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	hnRNP U
Species	Human
Immunogen	Synthetic peptide derived from Human hnRNP U.
Conjugation	Un-conjugated
Alternate Names	U21.1; p120; hnRNP U; Heterogeneous nuclear ribonucleoprotein U; SAFA; HNRPU; SAF-A; pp120; Scaffold attachment factor A

Application Instructions

Application table	Application	Dilution
	FACS	1:20
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	K562	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

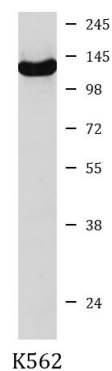
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HNRNPU
Gene Full Name	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
Background	<p>This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they form complexes with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene contains a RNA binding domain and scaffold-associated region (SAR)-specific bipartite DNA-binding domain. This protein is also thought to be involved in the packaging of hnRNA into large ribonucleoprotein complexes. During apoptosis, this protein is cleaved in a caspase-dependent way. Cleavage occurs at the SALD site, resulting in a loss of DNA-binding activity and a concomitant detachment of this protein from nuclear structural sites. But this cleavage does not affect the function of the encoded protein in RNA metabolism. At least two alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]</p>
Function	<p>Component of the CRD-mediated complex that promotes MYC mRNA stabilization. Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Binds to double- and single-stranded DNA and RNA. Plays a role in the circadian regulation of the core clock component ARNTL/BMAL1 transcription (By similarity). [UniProt]</p>
Calculated Mw	91 kDa
PTM	<p>Extensively phosphorylated.</p> <p>Arg-739 is dimethylated, probably to asymmetric dimethylarginine.</p> <p>Citrullinated by PADI4. [UniProt]</p>
Cellular Localization	<p>Nucleus. Nucleus matrix. Chromosome. Nucleus speckle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Midbody. Cytoplasm. Cell surface. Cytoplasmic granule. [UniProt]</p>

Images



ARG40912 anti-hnRNP U antibody WB image

Western blot: K562 cell lysate stained with ARG40912 anti-hnRNP U antibody.