



# hnRNP U Monoclonal Antibody

<b>Catalog No</b>	BYab-01040
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Bovine;Pig;Rabbit
<b>Applications</b>	WB
<b>Gene Name</b>	HNRNPU
<b>Protein Name</b>	Heterogeneous nuclear ribonucleoprotein U
<b>Immunogen</b>	Purified recombinant human hnRNP U protein fragments expressed in E.coli.
<b>Specificity</b>	hnRNP U Monoclonal Antibody detects endogenous levels of hnRNP U protein.
<b>Formulation</b>	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	HNRNPU; HNRPU; SAFA; U21.1; Heterogeneous nuclear ribonucleoprotein U; hnRNP U; Scaffold attachment factor A; SAF-A; p120; pp120
<b>Observed Band</b>	
<b>Cell Pathway</b>	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 . Localizes at inactive X chromosome (Xi) regions (PubMed:11003645, PubMed:14608463, PubMed:15563465). Localizes in the nucleus during interphase (PubMed:21242313). At metaphase, localizes with mitotic spindle microtubules (MTs) (PubMed:21242313). At anaphase, localizes in the mitotic spindle midzone (PubMed:21242313). Localizes in spindle MTs proximal to spindle poles in a TPX2- and AURKA-dependent manner (PubMed:21242313). The Ser-59 phosphorylated form localizes to centrosomes during prophase an
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	function: Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Bind to double- and single-stranded DNA and RNA.,PTM:Arg-732 and

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Arg-738 are dimethylated, probably to asymmetric dimethylarginine.,PTM:Extensively phosphorylated.,similarity:Contains 1 B30.2/SPRY domain.,similarity:Contains 1 SAP domain.,subcellular location:Component of ribonucleosomes. Also found associated with the cell surface.,subunit:Identified in the spliceosome C complex, at least composed of AQR, ASCC3L1, C19orf29, CDC40, CDC5L, CRNKL1, DDX23, DDX41, DDX48, DDX5, DGCR14, DHX35, DHX38, DHX8, EFTUD2, FRG1, GPATC1, HNRNPA1, HNRNPA2B1, HNRPA3, HNRNPC, HNRPF, HNRPH1, HNRPK, HNRPM, HNRNPR, HNRNPU, KIAA1160, KIAA1604, LSM2, LSM3, MAGOH, MORG1, PABPC1, PLRG1, PNN, PPIE, PPIL1, PPIL3, PPWD1, PRPF19, PRPF4B, PRPF6, PRPF8, RALY, RBM22, RBM8A, RBMX, SART1, SF3A1, SF3A2, SF3A3, SF3B1, SF3B2, SF3B3, SFRS1,

### Background

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

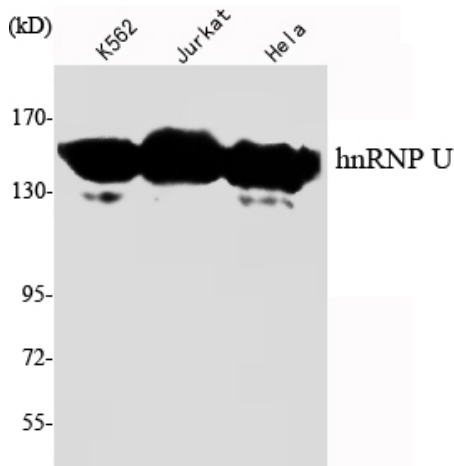
### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis using hnRNP U Monoclonal Antibody against K562, Jurkat, HeLa cell lysate.

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