



hnRNP U mouse mAb

Catalog No	YP-Ab-01085
Isotype	IgG
Reactivity	Human
Applications	WB
Gene Name	hnrnpu
Immunogen	Purified recombinant human hnRNP U protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of hnRNP U and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	C1orf199;GRIP120;hnRNP U;HNRPU;Nuclear p120 ribonucleoprotein;hnrnpu; Heterogeneous nuclear ribonucleoprotein U;hnRNP U protein;hnRNPU protein; HNRPU_HUMAN;p120;p120 nuclear protein;SAF A;SAF-A;SAFA;Scaffold attachment factor A;U21.1.
Observed Band	110kD
Calculated Molecular Weight	110kD
Cell Pathway	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
Tissue Specificity	Widely expressed.



Function

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 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, MORF1, 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

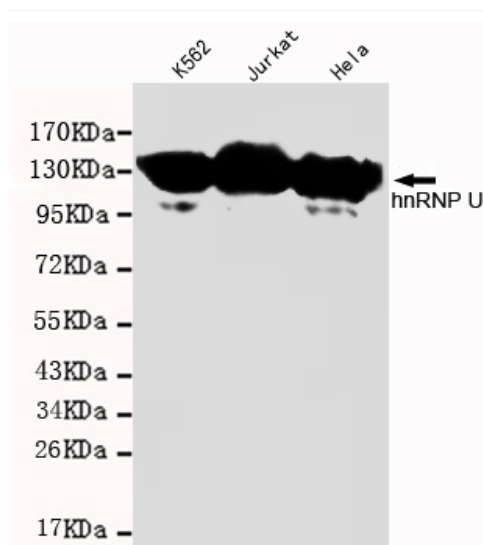
matters needing attention

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 detection of hnRNP U in K562, Jurkat and HeLa cell lysates and using hnRNP U mouse mAb (1:1000 diluted). Predicted band size: 110 kDa. Observed band size: 110 kDa.