G-Biosciences Image not found or type unknown

Immunotag™ hnRNP U Monoclonal Antibody

Antibody Specification

Catalog No.	ITM1044
Product Description	Immunotag™ hnRNP U Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	hnRNP U
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB
Recommended Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Bovine,Pig,Rb
Host Species	Mouse
Immunogen	Purified recombinant human hnRNP U protein fragments expressed in E.coli.
Specificity	hnRNP U Monoclonal Antibody detects endogenous levels of hnRNP U protein.
Purification	Affinity purification
Form	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Gene Name	HNRNPU
Accession No.	Q00839 Q8VEK3
Alternate Names	HNRNPU; HNRPU; SAFA; U21.1; Heterogeneous nuclear ribonucleoprotein U; hnRNP U; Scaffold attachment factor A; SAF-A; p120; pp120

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Description	heterogeneous nuclear ribonucleoprotein U(HNRNPU) Homo sapiens 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
Cell Pathway/ Category	Spliceosome,
Protein Expression	Colon,Epithelium,Eye,Liver,Lymph,Ovarian carcinoma,Placenta
Subcellular Localization	nucleus,nucleoplasm,telomerase holoenzyme complex,cell surface,membrane,intracellular ribonucleoprotein complex,extracellular matrix,cytoplasmic ribonucleoprotein granule,CRD-mediated mRNA stability complex,catalytic step 2 sp
Protein 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, MORG1, PABPC1, PLRG1, PNN, PPIE, PPIL1, PPIL3, PPWD1, PRPF19, PRPF4B, PRPF6, PRPF8, RALY, RBM22, RBM8A, RBMX, SART1, SF3A1, SF3A2, SF3A3, SF3B1, SF3B2, SF3B3, SFRS1, SKIV2L2, SNRPA1, SNRPB, SNRPB2, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF, SNRPG, SNW1, SRRM1, SRRM2, SYF2, SYNCRIP, TFIP11, THOC4, U2AF1, WDR57, XAB2 and ZCCHC8. Ligand for CR2.,
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