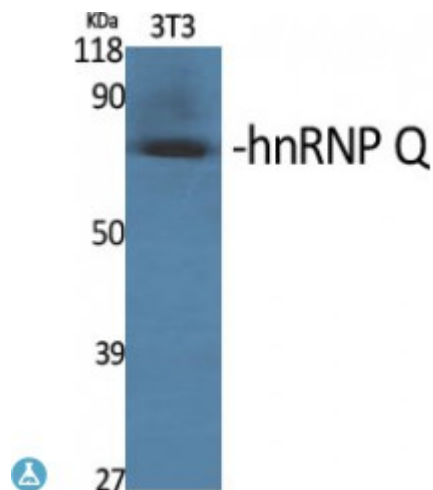


Anti-hnRNP Q antibody



Description	Rabbit polyclonal to hnRNP Q.
Model	STJ93571
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human hnRNP Q
Immunogen Region	210-290 aa, Internal
Gene ID	10492
Gene Symbol	SYNCRIP
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	hnRNP Q Polyclonal Antibody detects endogenous levels of hnRNP Q protein.
Tissue Specificity	Ubiquitously expressed. Detected in heart, brain, pancreas, placenta, spleen, lung, liver, skeletal muscle, kidney, thymus, prostate, uterus, small intestine, colon, peripheral blood and testis.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Heterogeneous nuclear ribonucleoprotein Q hnRNP Q Glycine- and tyrosine-rich RNA-binding protein GRY-RBP NS1-associated protein 1 Synaptotagmin-binding, cytoplasmic RNA-interacting protein

Molecular Weight	62 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:16918 OMIM:NA
Alternative Names	Heterogeneous nuclear ribonucleoprotein Q hnRNP Q Glycine- and tyrosine-rich RNA-binding protein GRY-RBP NS1-associated protein 1 Synaptotagmin-binding, cytoplasmic RNA-interacting protein
Function	Heterogenous nuclear ribonucleoprotein (hnRNP) implicated in mRNA processing mechanisms. Component of the CRD-mediated complex that promotes MYC mRNA stability. Isoform 1, isoform 2 and isoform 3 are associated in vitro with pre-mRNA, splicing intermediates and mature mRNA protein complexes. Isoform 1 binds to apoB mRNA AU-rich sequences. Isoform 1 is part of the APOB mRNA editosome complex and may modulate the postranscriptional C to U RNA-editing of the APOB mRNA through either by binding to A1CF (APOBEC1 complementation factor), to APOBEC1 or to RNA itself. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Interacts in vitro preferentially with poly(A) and poly(U) RNA sequences. Isoform 3 may be involved in cytoplasmic vesicle-based mRNA transport through interaction with synaptotagmins. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma activation assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation; seems not to be essential for GAIT complex function.
Sequence and Domain Family	The domain containing eight Arg-Gly-Gly repeats (RGG/RXR-box) may be involved in RNA-binding and protein-protein interactions. It is methylated by PRMT1, and essential for nuclear localization.
Cellular Localization	Cytoplasm Microsome Endoplasmic reticulum Nucleus. The tyrosine phosphorylated form bound to RNA is found in microsomes . Localized in cytoplasmic mRNP granules containing untranslated mRNAs . Isoform 1: Nucleus, nucleoplasm. Expressed predominantly in the nucleoplasm. Isoform 2: Nucleus, nucleoplasm. Expressed predominantly in the nucleoplasm. Isoform 3: Nucleus, nucleoplasm. Expressed predominantly in the nucleoplasm.
Post-translational Modifications	Phosphorylated on tyrosine. The membrane-bound form found in microsomes is phosphorylated in vitro by insulin receptor tyrosine kinase (INSR). Phosphorylation is inhibited upon binding to RNA, whereas the cytoplasmic form is poorly phosphorylated .

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