

**Product Name: hnRNP Q Rabbit Polyclonal Antibody****Catalog #: APRab12153**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	62kDa

**Antigen Information**

<b>Gene Name</b>	SYNCRIP
<b>Alternative Names</b>	SYNCRIP; HNRPQ; NSAP1; 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
<b>Gene ID</b>	10492.0
<b>SwissProt ID</b>	O60506
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human hnRNP Q. AA range:236-285

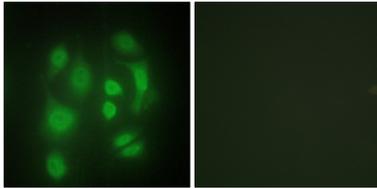
## Background

This gene encodes a member of the cellular heterogeneous nuclear ribonucleoprotein (hnRNP) family. hnRNPs are RNA binding proteins that complex with heterogeneous nuclear RNA (hnRNA) and regulate alternative splicing, polyadenylation, and other aspects of mRNA metabolism and transport. The encoded protein plays a role in multiple aspects of mRNA maturation and is associated with several multiprotein complexes including the apoB RNA editing-complex and survival of motor neurons (SMN) complex. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 20. [provided by RefSeq, Dec 2011],domain:The domain containing eight Arg-Gly-Gly repeats may be involved in RNA-binding and protein-protein interactions.,function:Heterogenous nuclear ribonucleoprotein (hnRNP) implicated in mRNA processing mechanisms. 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 posttranscriptional 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.,PTM: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 (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A sequence starting in position 413.,similarity:Contains 3 RRM (RNA recognition motif) domains.,subcellular location:Expressed predominantly in the nucleoplasm.,subcellular location:The tyrosine phosphorylated form bound to RNA is found in microsomes.,subunit:Isoform 1 is a component of the APOB mRNA editosome complex and interacts with APOBEC1 and A1CF (APOBEC1 complementation factor). Part of a complex associated with the FOS mCRD domain and consisting of PABPC1, PAIP1, CSDE1/UNR, HNRPD and SYNCRIP. Isoform 3 interacts with HNRPR. Interacts with POLR2A hyperphosphorylated C-terminal domain. Interacts with minute virus of mice (MVM) NS1 protein. Isoform 1, isoform 2 and isoform 3 interact with SMN. Isoform 3 interacts through its C-terminal domain with SYT7, SYT8 and SYT9 (By similarity). The non-phosphorylated and phosphorylated forms are colocalized with PAIP1 in polysomes (By similarity). 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, HNRPA1, HNRPA2B1, HNRPA3, HNRPC, HNRPF, HNRPH1, HNRPK, HNRPM, HNRPR, HNRPU, 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.,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.,

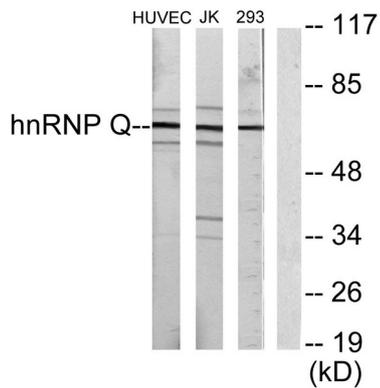
## Research Area

Microbiology

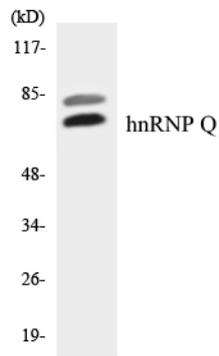
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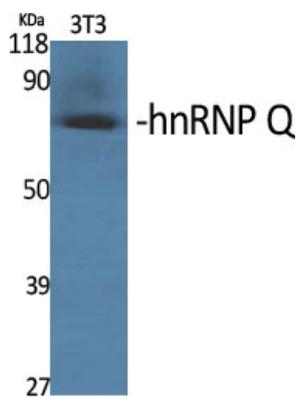
Immunofluorescence analysis of HepG2 cells, using hnRNP Q Antibody. The picture on the right is blocked with the synthesized peptide.



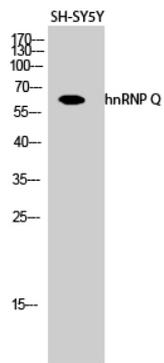
Western blot analysis of lysates from Jurkat, HUVEC, and 293 cells, using hnRNP Q Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using hnRNP Q antibody.



Western Blot analysis of various cells using hnRNP Q Polyclonal Antibody diluted at 1: 2000



Western Blot analysis of SH-SY5Y cells using hnRNP Q Polyclonal Antibody diluted at 1: 2000