



hnRNP Q Polyclonal Antibody

Catalog No	YP-Ab-01812
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SYNCRIP
Protein Name	Heterogeneous nuclear ribonucleoprotein Q
Immunogen	The antiserum was produced against synthesized peptide derived from human hnRNP Q. AA range:236-285
Specificity	hnRNP Q Polyclonal Antibody detects endogenous levels of hnRNP Q protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	62kD
Cell Pathway	Cytoplasm . Microsome . Endoplasmic reticulum . Nucleus . The tyrosine phosphorylated form bound to RNA is found in microsomes (By similarity). Localized in cytoplasmic mRNP granules containing untranslated mRNAs (By similarity). .; [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. .
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.
Function	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 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 v

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],

matters needing attention

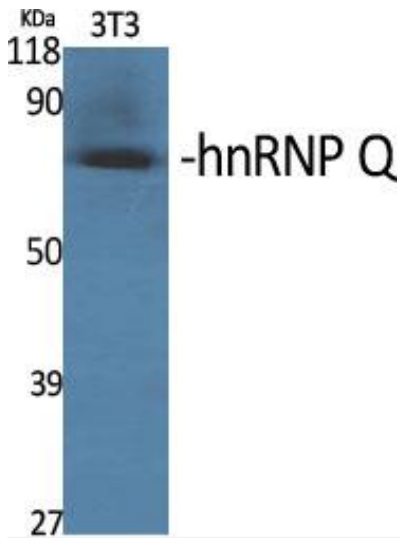
Avoid repeated freezing and thawing!

Usage suggestions

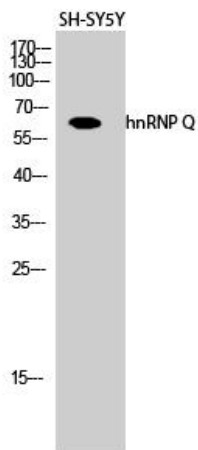
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



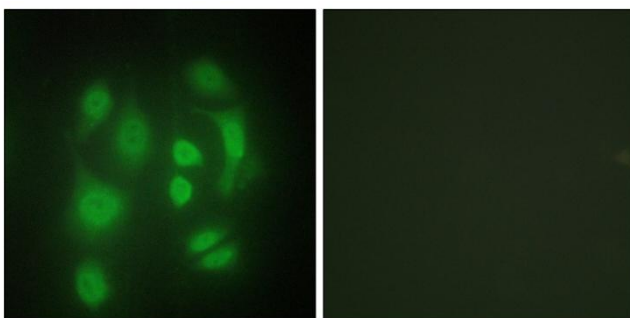
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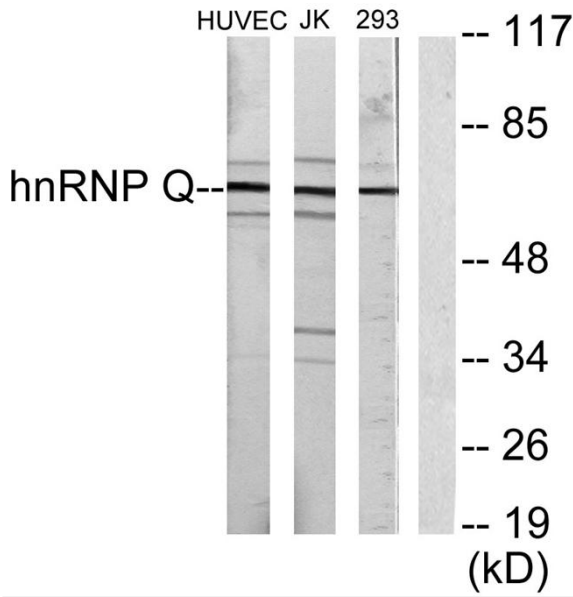
Western Blot analysis of various cells using hnRNP Q Polyclonal Antibody diluted at 1:2000



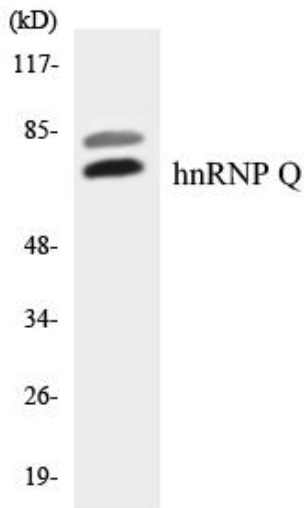
Western Blot analysis of SH-SY5Y cells using hnRNP Q Polyclonal Antibody diluted at 1:2000



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.