

SYNCRIP / HnRNP Q Antibody (aa236-285)
Rabbit Polyclonal Antibody
Catalog # ALS15748

Specification

SYNCRIP / HnRNP Q Antibody (aa236-285) - Product Information

Application	IHC, IF, WB
Primary Accession	O60506
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70kDa KDa

SYNCRIP / HnRNP Q Antibody (aa236-285) - Additional Information

Gene ID 10492

Other 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, SYNCRIP, HNRPQ, NSAP1

Target/Specificity

hnRNP Q Antibody detects endogenous levels of total hnRNP Q protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

SYNCRIP / HnRNP Q Antibody (aa236-285) is for research use only and not for use in diagnostic or therapeutic procedures.

SYNCRIP / HnRNP Q Antibody (aa236-285) - Protein Information

Name SYNCRIP

Synonyms HNRPQ, NSAP1

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.

Cellular Location

Cytoplasm. Microsome {ECO:0000250|UniProtKB:Q7TMK9} Endoplasmic reticulum. Nucleus {ECO:0000250|UniProtKB:Q7TMK9}. Note=The tyrosine phosphorylated form bound to RNA is found in microsomes (By similarity). Localized in cytoplasmic mRNP granules containing untranslated mRNAs (By similarity). {ECO:0000250|UniProtKB:O43390, ECO:0000250|UniProtKB:Q7TMK9} [Isoform 2]: Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q7TMK9}. Note=Expressed predominantly in the nucleoplasm. {ECO:0000250|UniProtKB:Q7TMK9}

Tissue Location

Ubiquitously expressed. Detected in heart, brain, pancreas, placenta, spleen, lung, liver, skeletal muscle, kidney, thymus, prostate, uterus, small intestine, colon, peripheral blood and testis.

Volume

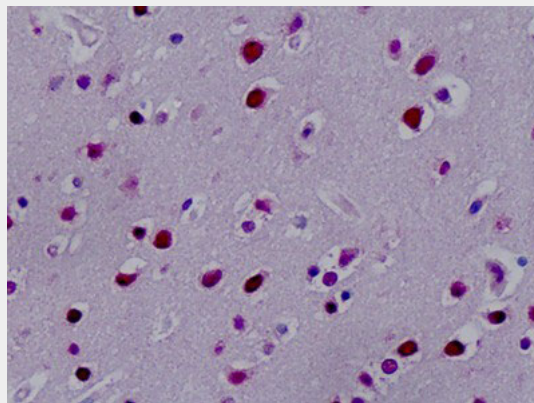
50 µl

SYNCRIP / HnRNP Q Antibody (aa236-285) - Protocols

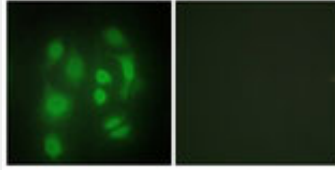
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

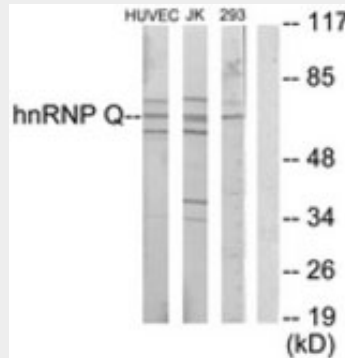
SYNCRIP / HnRNP Q Antibody (aa236-285) - Images



Human, Brain, neurons: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunofluorescence of HepG2 cells, using hnRNP Q Antibody.



Western blot of extracts from Jurkat/HUVEC/293 cells, using hnRNP Q Antibody.

SYNCRIP / HnRNP Q Antibody (aa236-285) - Background

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.

SYNCRIP / HnRNP Q Antibody (aa236-285) - References

- Harris C.E.,et al.J. Virol. 73:72-80(1999).
- Du G.,et al.Chin. Sci. Bull. 45:343-349(2000).
- Mourelatos Z.,et al.EMBO J. 20:5443-5452(2001).
- Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
- Mungall A.J.,et al.Nature 425:805-811(2003).