10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

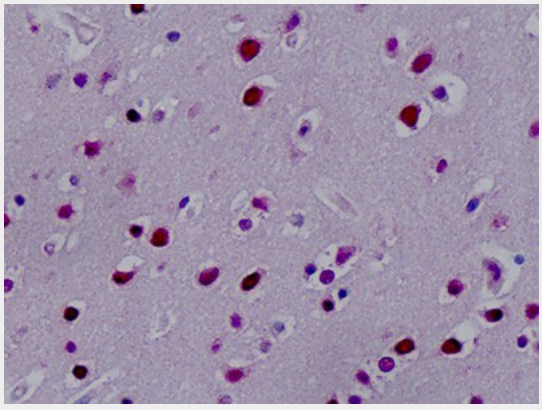
Volume
50 µl

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 Cytomety
- Cell Culture

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



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

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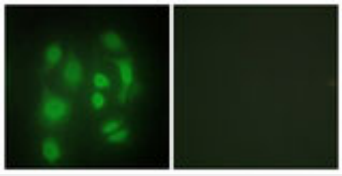
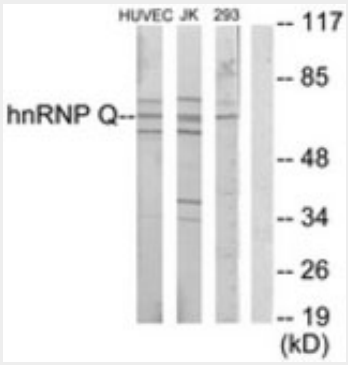


Immunofluorescence of HepG2 cells, using hnRNP Q Antibody.



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

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Mourelatos Z.,et al.EMBO J. 20:5443-5452(2001).
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Mungall A.J.,et al.Nature 425:805-811(2003).