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HNRPQ Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7852c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O60506
Other Accession	Q7TP47, Q7TMK9
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15599
Calculated MW	69603
Antigen Region	392-420

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	This HNRPQ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 392-420 amino acids from the Central region of human HNRPQ.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HNRPQ Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SYNCRIP

Synonyms	HNRPQ, NSAP1
Function	Heterogeneous 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; does not seem 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.

Background

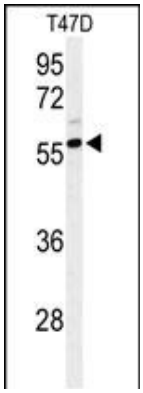
Heterogenous nuclear ribonucleoprotein (hnRNP) implicated in mRNA processing mechanisms.

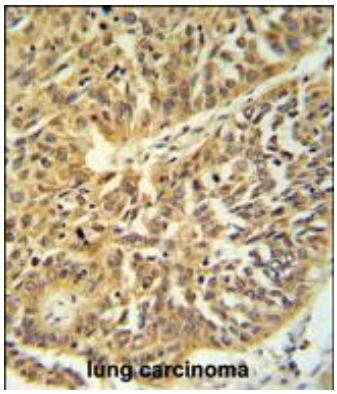
References

Yoo,B.C., Cell. Mol. Life Sci. 66 (2), 350-364 (2009) Chen,H.H., Mol. Cell. Biol. 28 (22), 6929-6938 (2008) Quaresma,A.J., Biochem. Biophys. Res. Commun. 350 (2), 288-297 (2006)

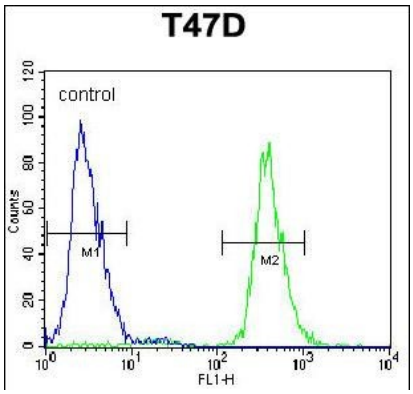
Images

Western blot analysis of HNRPQ Antibody (Center) (Cat. #AP7852c) in T47D cell line lysates (35ug/lane). HNRPQ (arrow) was detected using the purified Pab.





HNRPQ Antibody (Center) (Cat. #AP7852c) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HNRPQ Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



HNRPQ Antibody (Center) (Cat. #AP7852c) flow cytometric analysis of T47D cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- The EGF/hnRNP Q1 axis is involved in tumorigenesis via the regulation of cell cycle-related genes.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.