

Rabbit hnRNP Q Polyclonal Antibody | anti-HNRPQ antibody

hnRNP Q Antibody

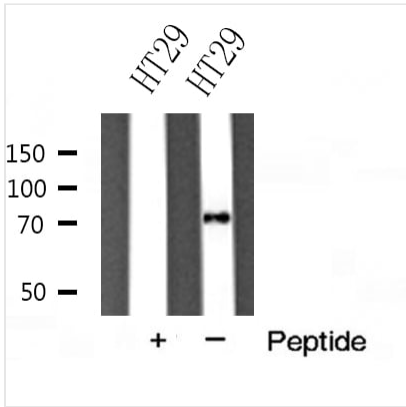
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321892	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

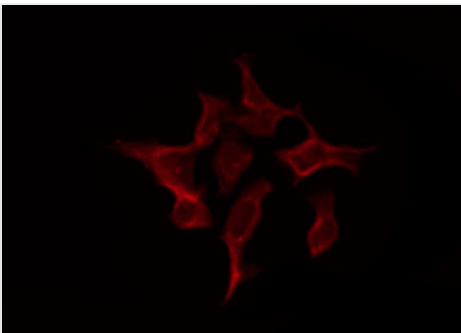
hnRNP Q; Polyclonal Antibody; hnRNP Q Antibody; cytoplasmic RNA-interacting protein; dJ3J17.2; Glycine and tyrosine rich RNA binding protein; Glycine-and tyrosine-rich RNA-binding protein; GRY RBP; GRY-RBP; GRYRBP; Heterogeneous nuclear ribonucleoprotein Q; HNRPQ_HUMAN; HNRPQ1; NS1 associated protein 1; NS1-associated protein 1; NSAP1; pp68; RP1 3J17.2; Synaptotagmin binding cytoplasmic RNA interacting protein; Synaptotagmin-binding; Syncrip; anti-HNRPQ antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	hnRNP Q antibody detects endogenous levels of total hnRNP Q
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	464
Applicable Applications for anti-HNRPQ antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human hnRNP Q
Subcellular Location	Nucleus > Nucleoplasm. Expressed predominantly in the nucleoplasm and 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.
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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of hnRNP Q expression in HT29 cell lysate.



IF (Immunofluorescence)
AAA321892 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HNRPQ antibody	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. Subunit Structure: 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). Interacts with HABP4 (PubMed:19523114). Identified in a histone pre-mRNA complex, at least composed of ERI1, LSM11, SLBP, SNRPB, SYNCRIP and YBX1 (By similarity). Identified in the spliceosome C complex. Component of the coding region determinant (CRD)-mediated complex, composed of DHX9, HNRNPU, IGF2BP1, SYNCRIP and YBX1. Identified in a mRNP complex, at least composed of DHX9, DDX3X, ELAVL1, HNRNPU, IGF2BP1, ILF3, PABPC1, PCBP2, PTBP2, STAU1, STAU2, SYNCRIP and YBX1. Identified in a mRNP granule complex, at least composed of ACTB, ACTN4, DHX9, ERG, HNRNPA1, HNRNPA2B1, HNRNPAB, HNRNPD, HNRNPL, HNRNPR, HNRNPU, HSPA1, HSPA8, IGF2BP1, ILF2, ILF3, NCBP1, NCL, PABPC1, PABPC4, PABPN1, RPLP0, RPS3, RPS3A, RPS4X, RPS8, RPS9, SYNCRIP, TROVE2, YBX1 and untranslated mRNAs. Interacts with GTPBP1. Component of the GAIT complex; in humans the complex assembly seems to be a two-step process in which EPRS first associates with SYNCRIP to form a pre-GAIT complex which is deficient in GAIT element binding. Post-translational Modifications: 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). Similarity: The domain containing eight Arg-Gly-Gly repeats (RGG/RXR-box) may be involved in RNA-binding and protein-protein interactions. It is methylated by PRMT1, and essential for nuclear localization.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	228008396
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NCBI GeneID	10492
NCBI Accession #	NP_001153145.1
NCBI GenBank Nucleotide #	NM_001159673.1
UniProt Accession #	O60506 ; Q53H05 ; Q5TCG2 ; Q5TCG3 ; Q8IW78 ; Q8N599 ; Q96LC1 ; Q96LC2 ; Q9Y583 ; E1P501 ; E1P502
Molecular Weight	Observed: 70 kDa Predicted: 70 kDa
NCBI Official Full Name	heterogeneous nuclear ribonucleoprotein Q isoform 2
NCBI Official Synonym Full Names	synaptotagmin binding cytoplasmic RNA interacting protein
NCBI Official Symbol	SYNCRIP
NCBI Official Synonym Symbols	PP68; NSAP1; GRYRBP; HNRNPQ; HNRPQ1; GRY-RBP; hnRNP-Q
NCBI Protein Information	heterogeneous nuclear ribonucleoprotein Q
UniProt Protein Name	Heterogeneous nuclear ribonucleoprotein Q
UniProt Gene Name	SYNCRIP
UniProt Synonym Gene Names	HNRPQ; NSAP1; hnRNP Q; GRY-RBP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hnrmnp-q-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321892>