

Rabbit hnRNP C1/C2 Polyclonal Antibody | anti-HNRNPC antibody

hnRNP C1/C2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321918	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

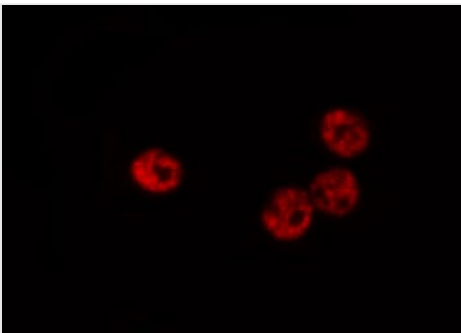
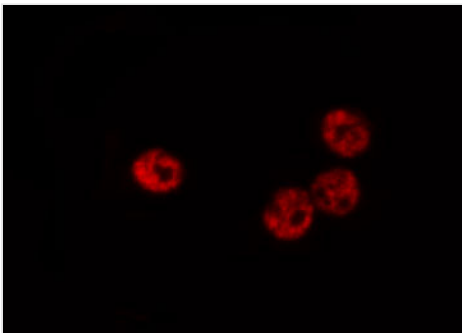
PRODUCT SYNONYMS

hnRNP C1/C2; Polyclonal Antibody; hnRNP C1/C2 Antibody; C1; C2; Heterogeneous nuclear ribonucleoprotein C (C1/C2); Heterogeneous nuclear ribonucleoprotein C; Heterogeneous nuclear ribonucleoproteins C1/C2; HNRNP; hnRNP C1/hnRNP C2; Hnrnpc; HNRPC; HNRPC_HUMAN; MGC104306; MGC105117; MGC117353; MGC131677; Nuclear ribonucleoprotein particle C1 protein; Nuclear ribonucleoprotein particle C2 protein; SNRPC; anti-HNRNPC antibody

PRODUCT SPECIFICATIONS

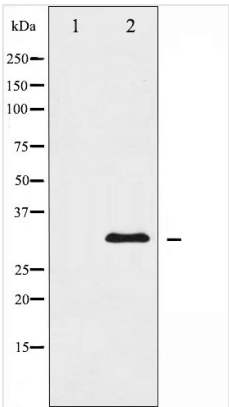
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	hnRNP C1/C2 antibody detects endogenous levels of total hnRNP C1/C2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	306
Applicable Applications for anti-HNRNPC antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human hnRNP C1/C2
Subcellular Location	Nucleus. Component of ribonucleosomes.
Predicted Cross Reactivity	Zebrafish, Horse, Rabbit, Dog
Similarity	Zebrafish (100%), Horse (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

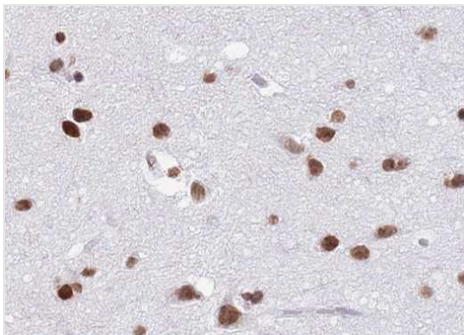


IF (Immunofluorescence)
AAA321918 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

IF (Immunofluorescence)
AAA321918 staining K-562 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of hnRNP C1/C2 Antibody expression in 293 cells lysates. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA321918 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-HNRNPC antibody	Function: Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles (PubMed:8264621). Interacts with poly-U tracts in the 3'-UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules (PubMed:12509468, PubMed:16010978, PubMed:7567451, PubMed:8264621). Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides (PubMed:8264621). May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. N6-methyladenosine (m6A) has been shown to alter the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm6A-switch', facilitating binding of HNRNPC, leading to regulation of mRNA splicing (PubMed:25719671). Subunit Structure: Tetramer composed of 3 copies of isoform C1 and 1 copy of isoform C2. Assembly of 3 tetramers with bound pre-mRNA gives rise to a 19S complex that interacts with HNRNPA2B1 tetramers. Component of the 40S hnRNP particle. Identified in the spliceosome C complex. Interacts with IGF2BP1. Interacts with DHX9; this interaction is direct, enhanced probably by their concomitant binding to RNA and mediates the attachment to actin filaments (PubMed:11687588). Post-translational Modifications: Phosphorylated on Ser-260 and Ser-299 in resting cells. Phosphorylated on Ser-253 and on 1 serine residue in the poly-Ser stretch at position 238 in response to hydrogen peroxide. Sumoylated. Sumoylation reduces affinity for mRNA. Similarity: Belongs to the RRM HNRPC family. RALY subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	117190192
NCBI GeneID	3183

NCBI Accession #	NP_001070910.1
NCBI GenBank Nucleotide #	NM_001077442.1
UniProt Accession #	P07910 ; P22628 ; Q53EX2 ; Q59FD3 ; Q5FWE8 ; Q86SF8 ; Q86U45 ; Q96HK7 ; Q96HM4 ; Q96IY5 ; D3DS19 ; D3DS22
Molecular Weight	Observed: 33 kDa Predicted: 34 kDa
NCBI Official Full Name	heterogeneous nuclear ribonucleoproteins C1/C2 isoform a
NCBI Official Synonym Full Names	heterogeneous nuclear ribonucleoprotein C (C1/C2)
NCBI Official Symbol	HNRNPC
NCBI Official Synonym Symbols	C1; C2; HNRNP; HNRPC; SNRPC
NCBI Protein Information	heterogeneous nuclear ribonucleoproteins C1/C2
UniProt Protein Name	Heterogeneous nuclear ribonucleoproteins C1/C2
UniProt Gene Name	HNRNPC
UniProt Synonym Gene Names	HNRPC; hnRNP C1/C2

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/hnmp-c1-c2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321918>