



Rabbit Anti-hnRNP C1/C2 antibody

SL6459R

Product Name:	hnRNP C1/C2
Chinese Name:	异质性核糖核蛋白C1/C2抗体
Alias:	hnRNP C1 + C2; Heterogeneous nuclear ribonucleoprotein C; Heterogeneous nuclear ribonucleoproteins C1/C2; HNRNP; hnRNP C1 / hnRNP C2; hnRNPC; HNRPC; HNRPC_HUMAN; Nuclear ribonucleoprotein particle C1 protein; Nuclear ribonucleoprotein particle C2 protein; SNRPC.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	34kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HNRPC:21-120/306
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles. Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. 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.

Function:

UniProtKB/Swiss-Prot: P07910.4

Subunit:

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.

Subcellular Location:

Nucleus. Component of ribonucleosomes.

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.
Contains 1 RRM (RNA recognition motif) domain.

SWISS:

P07910

Gene ID:

3183

Database links:

[Entrez Gene: 3183](#) Human

[Entrez Gene: 15381](#) Mouse

[Entrez Gene: 290046](#) Rat

[Omim: 164020](#) Human

[SwissProt: P07910](#) Human

[SwissProt: Q9Z204](#) Mouse

[SwissProt: P17132](#) Rat

[Unigene: 508848](#) Human

[Unigene: 675546](#) Human

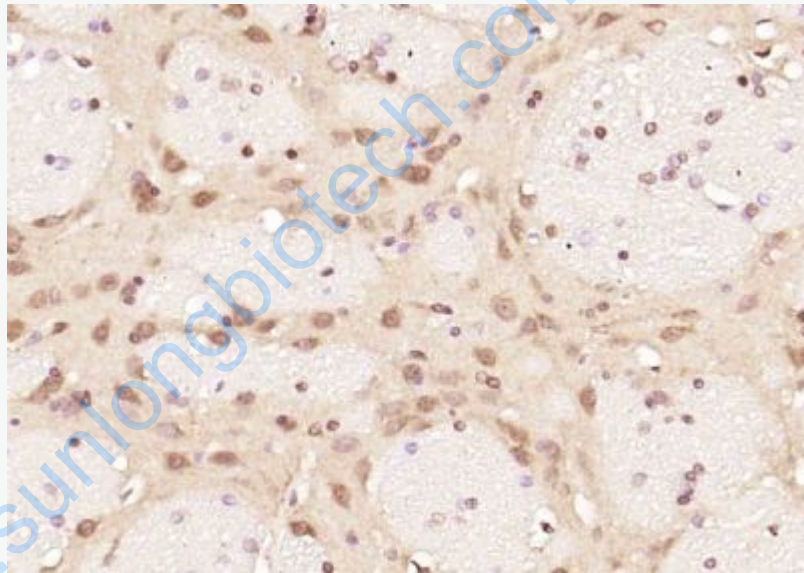
[Unigene: 427321](#) Mouse

[Unigene: 473169](#) Mouse

[Unigene: 101929](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (hnRNP C1) Polyclonal Antibody, Unconjugated (SL6459R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.