SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-hnRNP C1/C2 antibody

Catalog Number: SL6459R

FOR RESEARCH USE ONLY

[DATASHEET]

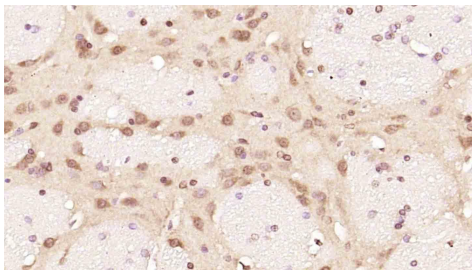
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	hnRNP C1/C2
Immunogen:	KLH conjugated synthetic peptide derived from human HNRPC: 21-120/306
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:50-200 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Horse,Rabbit)
Predicted MW.:	34kDa
Subcellular Location:	The nucleus
Background:	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.

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

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	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. **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

[VALIDATION IMAGES]



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) instructionsand DAB staining.

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