

hnRNP C1/C2 Polyclonal Antibody

Catalog No :	YT2195
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	hnRNP C1/C2
Fields :	>>Spliceosome
Gene Name :	HNRNPC
Protein Name :	Heterogeneous nuclear ribonucleoproteins C1/C2
Human Gene Id :	3183
Human Swiss Prot No :	P07910
Mouse Gene Id :	15381
Mouse Swiss Prot No :	Q9Z204
Rat Swiss Prot No :	P17132
Immunogen :	The antiserum was produced against synthesized peptide derived from human hnRNP C1/C2. AA range:241-290
Specificity :	hnRNP C1/C2 Polyclonal Antibody detects endogenous levels of hnRNP C1/C2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 33kD

Cell Pathway : Spliceosome;

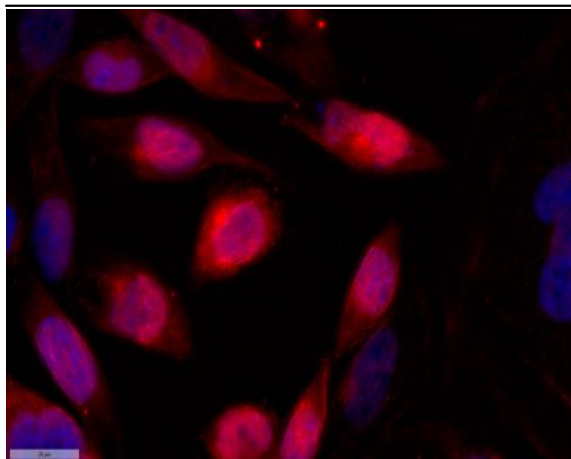
Background : This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene can act as a tetramer and is involved in the assembly of 40S hnRNP particles. Multiple transcript variants encoding at least two different isoforms have been described for this gene. [provided by RefSeq, Jul 2008],

Function : function: 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.,PTM: 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.,PTM: Sumoylated. Sumoylation reduces affinity for mRNA.,similarity: Belongs to the RRM HNRPC family. RALY subfamily.,similarity: Contains 1 RRM (RNA recognition motif) domain.,subcellular location: Component of ribonucleosomes.,subunit: Tetramer composed of 3 copies of isoform C1 and 1 copy of isoform C2. Assembly of 3

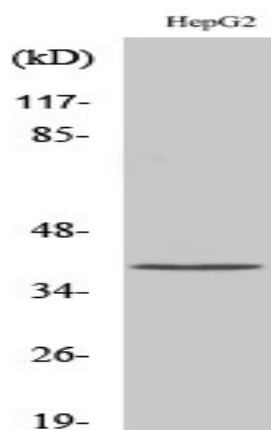
Subcellular Location : Nucleus. Component of ribonucleosomes.

Expression : Blood vessels- blood vessel, Bone marrow, Brain, Cajal

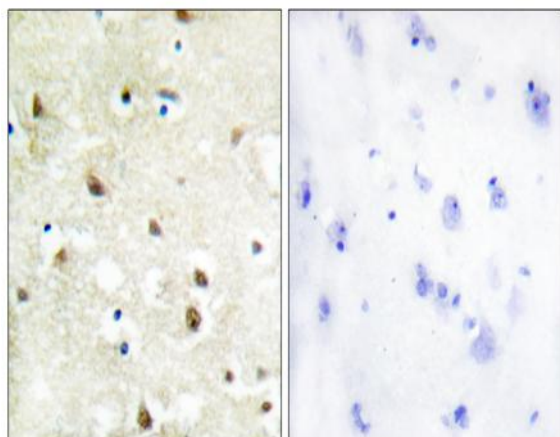
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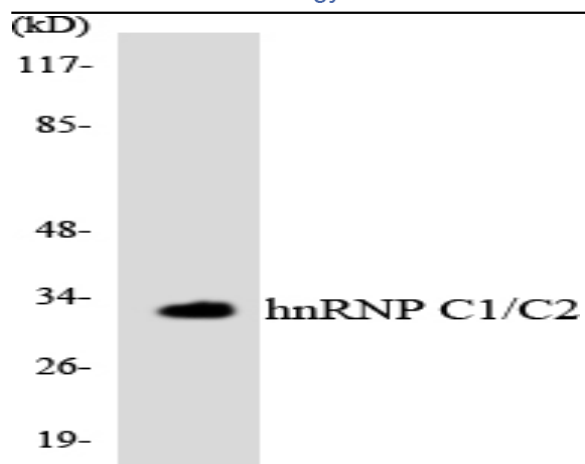
Immunofluorescence analysis of Siha cell. 1, primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFfluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).



Western Blot analysis of various cells using hnRNP C1/C2 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using hnRNP C1/C2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using hnRNP C1/C2 antibody.