

## hnRNP A1 Antibody

Rabbit mAb Catalog # AP91297

### **Specification**

## hnRNP A1 Antibody - Product Information

Application WB, IHC, FC, ICC

Primary Accession P09651
Reactivity Rat

Clonality Monoclonal Other Names

HNRNPA 1; HNRNPA1; HNRPA1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 38747 Da

# hnRNP A1 Antibody - Additional Information

Dilution WB~~1:1000

IHC~~1:100~500 FC~~1:10~50 ICC~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

hnRNP A1

Description hnRNP A1 regulates the alternative

splicing of c-Src and c-H-Ras and modifies initiation of translation of the fibroblast growth factor 2 mRNA. hnRNP A1 expression level is elevated in many

cancers; knockdown of hnRNP A1 leads to apoptosis in various cancer cells. Although predominantly nuclear, hnRNP A1 is

continually transported from the nucleus to the cytoplasm where it disassociates from mRNA and is rapidly re-imported into the nucleus

the nucleus.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

### hnRNP A1 Antibody - Protein Information

Name HNRNPA1

Synonyms HNRPA1



#### **Function**

Involved in the packaging of pre-mRNA into hnRNP particles, transport of poly(A) mRNA from the nucleus to the cytoplasm and modulation of splice site selection (PubMed:<a href="http://www.uniprot.org/citations/17371836" target="\_blank">17371836</a>). Plays a role in the splicing of pyruvate kinase PKM by binding repressively to sequences flanking PKM exon 9, inhibiting exon 9 inclusion and resulting in exon 10 inclusion and production of the PKM M2 isoform (PubMed:<a href="http://www.uniprot.org/citations/20010808" target="\_blank">20010808</a>). Binds to the IRES and thereby inhibits the translation of the apoptosis protease activating factor APAF1 (PubMed:<a href="http://www.uniprot.org/citations/31498791" target="\_blank">31498791</a>(PubMed:<a href="http://www.uniprot.org/citations/28431233" target="\_blank">28431233</a>/a>).

#### **Cellular Location**

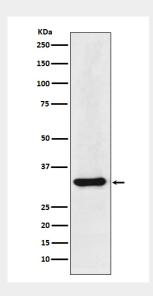
Nucleus. Cytoplasm Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Shuttles continuously between the nucleus and the cytoplasm along with mRNA. Component of ribonucleosomes (PubMed:17289661) Nucleus. Note=(Microbial infection) SARS coronavirus-2/SARS-CoV-2 ORF6 protein increases accumulation to the nucleus.

### hnRNP A1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### hnRNP A1 Antibody - Images



Western blot analysis of hnRNP A1 expression in HepG2 cell lysate.