abcam

Product datasheet

Anti-hnRNP A1 antibody ab4791

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概述

产品名称	Anti-hnRNP A1**抗体**
描述	**兔多克隆抗体**to hnRNP A1
宿主	Rabbit
特异性	This antibody recognises hnRNPA1 (39kDa) in Western blots.
经测试应用	**适用于:** IHC-P, IP, ICC/IF, WB
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat, Macaque monkey
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Recombinant Human hnRNP A1 (isoform A1-A) protein (**ab91691**) can be used as a positive control in WB. This antibody gave a positive signal in HeLa whole cell lysate and Human normal skin tissue section. ICC/IF positive control: U2OS cells
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab4791**于以下的**经测试应用

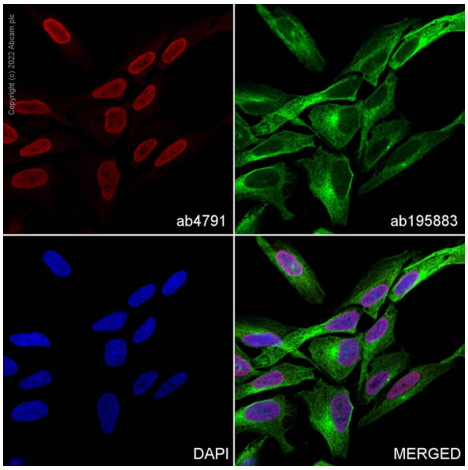
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB	★★☆☆☆ (1)	1/500 - 1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 41 kDa).

靶标

功能	Involved in the packaging of pre-mRNA into hnRNP particles, transport of poly(A) mRNA from the nucleus to the cytoplasm and may modulate splice site selection. May play a role in HCV RNA replication.
序列相似性	Contains 2 RRM (RNA recognition motif) domains.
翻译后修饰	Arg-194, Arg-206 and Arg-225 are dimethylated, probably to asymmetric dimethylarginine. Sumoylated.
细胞定位	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Shuttles continuously between the nucleus and the cytoplasm along with mRNA. Component of ribonucleosomes. In the course of viral infection, colocalizes with HCV NS5B at speckles in the cytoplasm in a HCV-replication dependent manner.

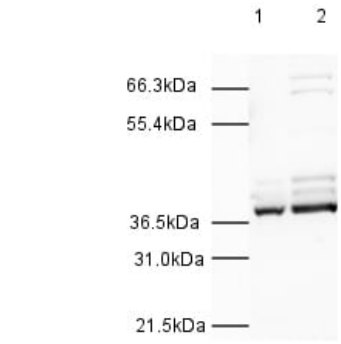
图片



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP A1 antibody (ab4791)

ab4791 staining hnRNP A1 in U2OS cells. The cells were fixed with 4% PFA (10 mins), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab4791 at 5µg/ml and **ab195883**, Rat monoclonal to alpha Tubulin (Alexa Fluor® 488), at 2µg/ml (shown in green). The secondary antibody (shown in red) was **ab150083**, Alexa Fluor® 647 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h at room temperature. Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Western blot - Anti-hnRNP A1 antibody (ab4791)

All lanes : Anti-hnRNP A1 antibody (ab4791) at 1/500 dilution

Lane 1 : HeLa Whole Cell Extract
Lane 2 : HeLa Nuclear Extract

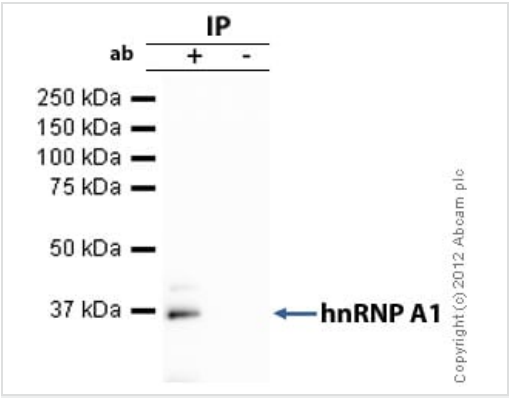
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab6721**) at 1/2000 dilution

Predicted band size: 41 kDa
Observed band size: 39 kDa

Rabbit polyclonal to hnRNPA1 (ab4791) at 1/500.

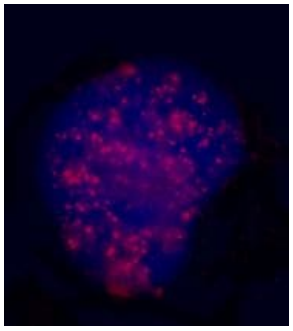
Lane 1: HeLa Whole Cell Extract
Lane 2: HeLa Nuclear Extract

Secondary ab: Goat anti-rabbit IgG HRP conjugate **ab6721** (1/2000)



Immunoprecipitation - Anti-hnRNP A1 antibody (ab4791)

hnRNP A1 was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Rabbit polyclonal to hnRNP A1 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab4791.
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (**ab99697**).
Band: 36kDa: hnRNP A1.

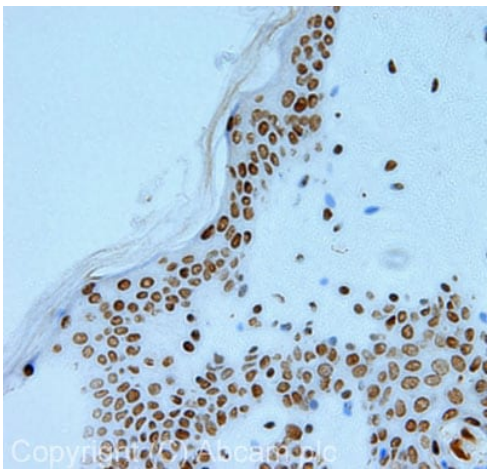


Immunocytochemistry/ Immunofluorescence - Anti-hnRNP A1 antibody (ab4791)

This image is courtesy of Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK

Immunofluorescent imaging of human cells (U2OS) with ab4791 reveals
the expected ribonucleoprotein particular staining in the nucleus.

IF was performed with a standard paraformaldehyde technique (fixed in
PBS buffered PFH 4% for 5 minutes, permeabilised with 0.5% triton-PBS
for 5 minutes, blocked with 5% milk / 0.2% tween for one hour. Primary antibody used at 1/200 in 5% milk / 0.2% TWEEN for one hour, secondary antibody for 30 minutes. All blocking and incubation steps carried out at 37 degrees. Nuclei counterstained with Hoechst stain (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody (ab4791)

IHC image of hnRNP A1 staining in human skin FFPE section, performed on a Leica Bond^{TM} system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab4791, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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