abcam

Product datasheet

Anti-hnRNP A1 antibody [9H10] ab5832

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概述

产品名称	Anti-hnRNP A1抗体[9H10]
描述	**小鼠单克隆抗体**[9H10] to hnRNP A1
宿主	Mouse
经测试应用	**适用于:** Flow Cyt, IHC-P, ELISA, WB, IP, ICC/IF
种属反应性	**与反应:** Mouse, Human
免疫原	Full length hnRNPA1 native protein (partially purified) from HeLa cells (Human).
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	Preservative: 0.1% Sodium azide Constituent: PBS
纯度	Protein A purified
纯化说明	Purified from tissue culture supernatant.
克隆	单克隆
克隆编号	9H10
骨髓瘤	Sp2/0
同种型	IgG2b

应用

The Abpromise guarantee Abpromise™承诺保证使用ab5832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
Flow Cyt		Use 1µg for 10^6 cells. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration.
WB	★★★★★ (3)	Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 38 kDa).
IP		Use at an assay dependent concentration. This antibody does not IP the hnRNP complex.
ICC/IF	★★★★☆ (2)	Use at an assay dependent concentration. See Abreview (April 2, 2007).

靶标

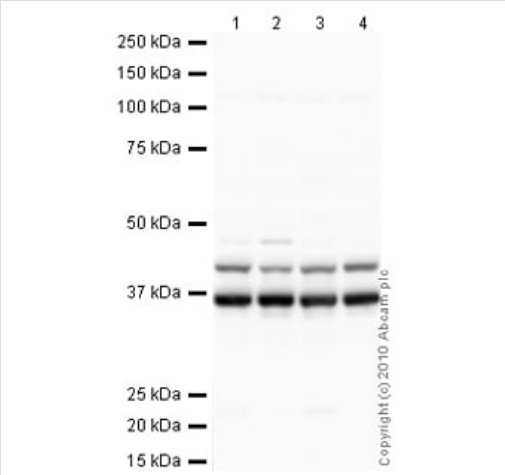
功能 Involved in the packaging of pre-mRNA into hnRNP particles, transport of poly(A) mRNA from the nucleus to the cytoplasm and may modulate splice site selection. May play a role in HCV RNA replication.

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



Western blot - Anti-hnRNP A1 antibody [9H10] (ab5832)

All lanes : Anti-hnRNP A1 antibody [9H10] (ab5832) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 4 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

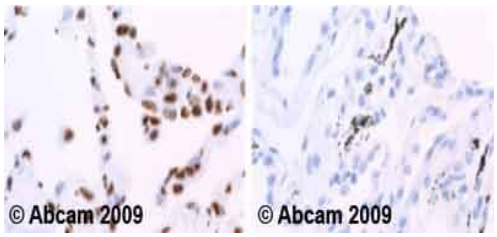
Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

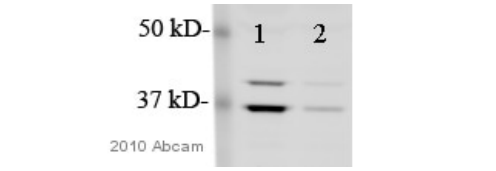
Predicted band size: 38 kDa
Observed band size: 37 kDa
Additional bands at: 43 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [9H10] (ab5832)

Ab5832 staining human lung. Staining is localized to the nucleus. Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.
Sections were stained using an automated system (Dako PT Link), at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffer, citrate pH 6.0. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Western blot - Anti-hnRNP A1 antibody [9H10] (ab5832)
This image is courtesy of an anonymous Abreview.

All lanes : Anti-hnRNP A1 antibody [9H10] (ab5832) at 1/1000 dilution

Lane 1 : Mouse NSC34 whole cell lysate with control siRNA
Lane 2 : Mouse NSC34 whole cell lysate with hnRNP A1 siRNA

Lysates/proteins at 10 µg per lane.

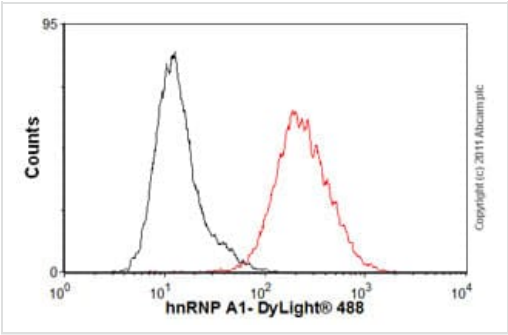
Secondary
All lanes : IRDye® 700DX-conjugated Donkey anti-Mouse IgG at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 38 kDa

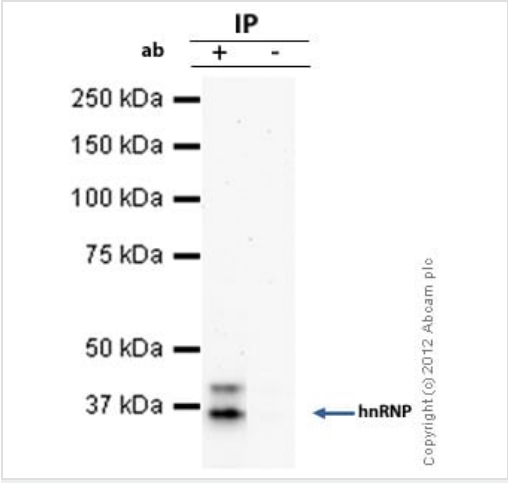
Exposure time: 1 minute

Knockdown for 72 hours.



Flow Cytometry - Anti-hnRNP A1 antibody [9H10] (ab5832)

Overlay histogram showing Jurkat cells stained with ab5832 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab5832, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunoprecipitation - Anti-hnRNP A1 antibody [9H10] (ab5832)

hnRNP A1 was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Mouse monoclonal to hnRNP A1 (ab5832) 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°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab5832.
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.
Band: 37kDa: hnRNP A1; 42kDa:We are unsure as to the identity of this extra band.

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