

Anti-hnRNP A1 antibody [9H10] ab5832

★★★★★ [5 Abreviews](#) [52 References](#) [画像数 5](#)

製品の概要

製品名	Anti-hnRNP A1 antibody [9H10]
製品の詳細	Mouse monoclonal [9H10] to hnRNP A1
由来種	Mouse
アプリケーション	適用あり: Flow Cyt, IHC-P, ELISA, WB, IP, ICC/IF
種交差性	交差種: Mouse, Human
免疫原	Full length hnRNPA1 native protein (partially purified) from HeLa cells (Human).
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.1% Sodium azide Constituent: PBS
精製度	Protein A purified
特記事項 (精製)	Purified from tissue culture supernatant.
ポリ/モノ	モノクローナル
クローン名	9H10
ミエローマ	Sp2/0
アイソタイプ	IgG2b

アプリケーション

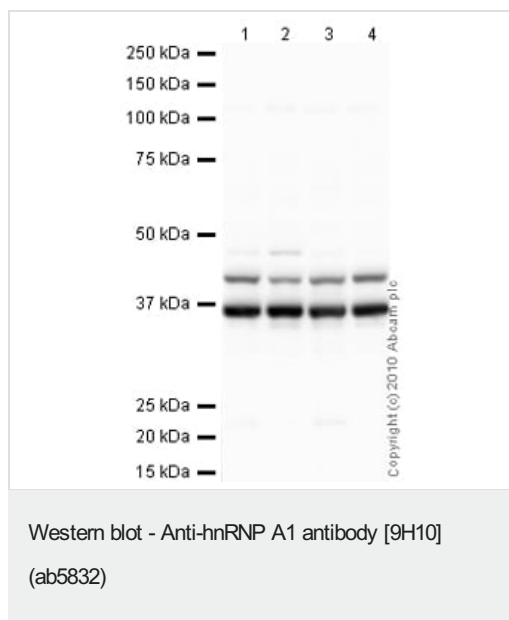
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab5832の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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).

ターゲット情報

機能	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.
配列類似性	Contains 2 RRM (RNA recognition motif) domains.
翻訳後修飾	Arg-194, Arg-206 and Arg-225 are dimethylated, probably to asymmetric dimethylarginine. Sumoylated.
細胞内局在	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.

画像



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.

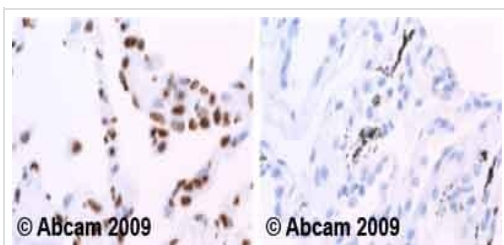
Performed under reducing conditions.

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

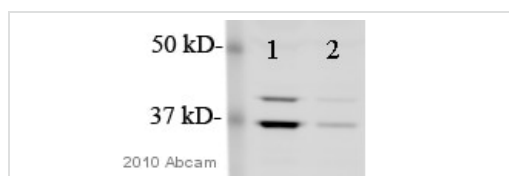


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [9H10] (ab5832)

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

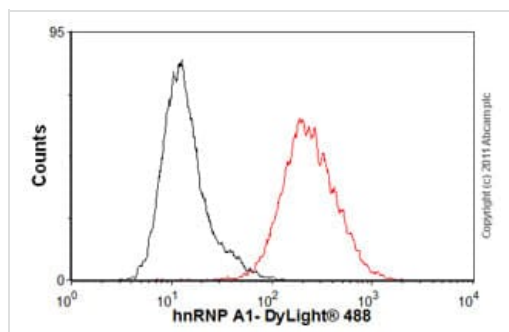
All lanes : IRDye® 700DX-conjugated Donkey anti-Mouse IgG at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 38 kDa

Exposure time: 1 minute

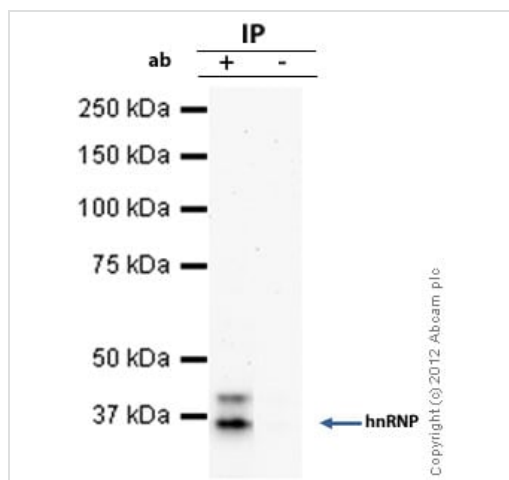
Knockdown for 72 hours.



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/1x10⁶ 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/1x10⁶ 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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