abcam

Product datasheet

Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] ab208026

リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-hnRNP A1 (citrulline R92) antibody [EPR20174]
製品の詳細	Rabbit monoclonal [EPR20174] to hnRNP A1 (citrulline R92)
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, Dot blot, IP
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HEK-293T transfected with GFP-tagged PADI2 and PADI4, respectively, treated with 10 mM calcium chloride and 10 ÂµM Ionomycin, whole cell lysates. Flow Cyt (intra): HEK-293T transfected with GFP-tagged PADI4, treated with 10 mM calcium chloride and 10 ÂµM Ionomycin, cells. IP: HEK-293T transfected with GFP-tagged PADI4, treated with 10 mM calcium chloride and 10 ÂµM Ionomycin, whole cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR20174
アイソタイプ	IgG

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ab208026の使用に適用されます

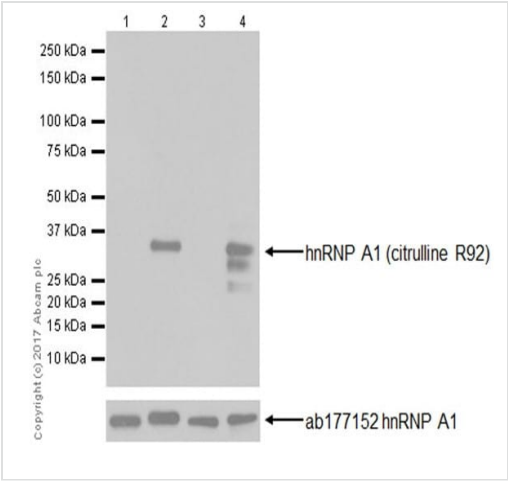
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/600.
WB		1/2000. Predicted molecular weight: 39 kDa.
Dot blot		1/1000.
IP		1/30.

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



Western blot - Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026)

All lanes : Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026) at 1/2000 dilution

Lanes 1 & 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a control vector containing GFP tag, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate
Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with GFP-tagged PADI2 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate
Lane 4 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

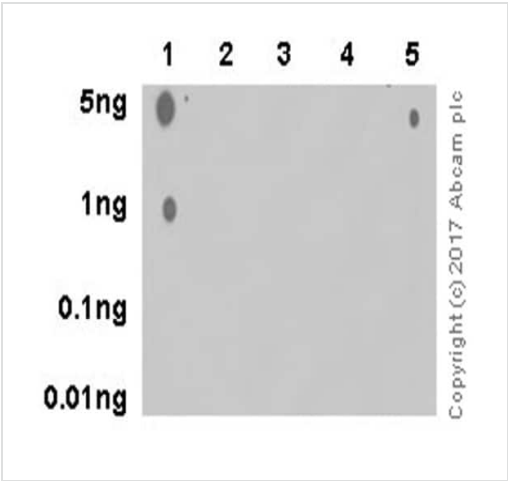
Predicted band size: 39 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

According to Uniprot annotation for HNRNPA1, isoform A1-A (34 kDa) is twenty times more abundant than isoform A1-B (39 kDa). The MW of HNRNPA1L2 is also 34 kD.

In WB this antibody does not cross react with CCDC51 (expected MW 45 kDa).



Dot Blot - Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026)

Dot blot analysis of hnRNP A1 (citrulline R92) labeled with ab208026 at 1/1000 dilution.

Lane 1: hnRNP A1 (citrulline R92) peptide.

Lane 2: hnRNP A1 non-citrulline peptide.

Lane 3: hnRNP A3 (citrulline R113) peptide.

Lane 4: hnRNP A0 (citrulline R85) peptide.

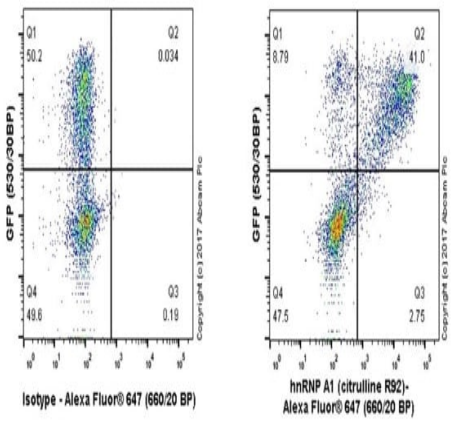
Lane 5: CCDC51(citrulline R142) peptide.

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution was used as secondary antibody.

Based on sequence homology this antibody cross reacts with CCDC51 (citrulline R142) peptide (detected by dot blot only) and hnRNP A1L2 (citrulline R92) protein.

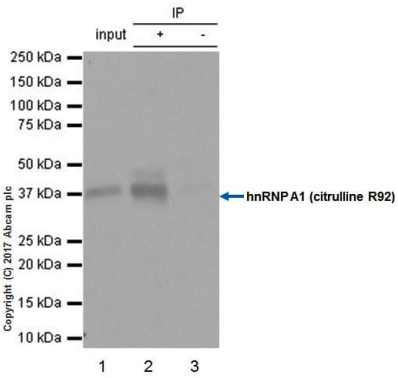
Exposure time: 3 minutes.

Blocking and dilution buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell line transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10µM Ionomycin for 2 hours,labeling hnRNP A1 (citrulline R92) with ab208026 at 1/600 dilution (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) (150079) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026)

hnRNP A1 (citrulline R92) was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate with ab208026 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab208026 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

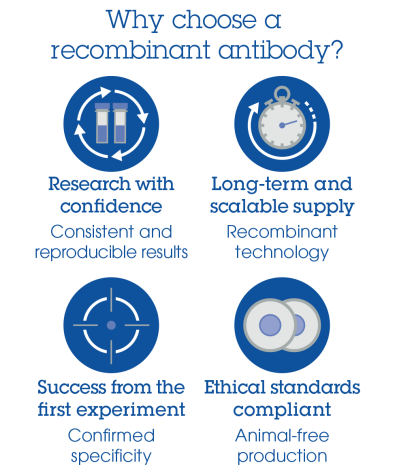
Lane 1: HEK-293T transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate 10 µg (Input).

Lane 2: ab208026 IP in HEK-293T transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab208026 in HEK-293T transfected with GFP-tagged PADI4 (WT) expression vector, treated with 10 mM calcium chloride and 10 µM Ionomycin for 2 hours, whole cell lysate.

Exposure time: Less than 1 second.

Blocking and dilution buffer: 5% NFDM/TBST.



Anti-hnRNP A1 (citrulline R92) antibody [EPR20174] (ab208026)

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