abcam

Product datasheet

Anti-hnRNP A1 antibody [EPR12768] ab177152

KO VALIDATED Recombinant RabMAb

9 References 7 Images

Overview

Product name	Anti-hnRNP A1 antibody [EPR12768]
Description	Rabbit monoclonal [EPR12768] to hnRNP A1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IHC-P, WB, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	MCF-7, HepG2, K562, HEK-293T, HeLa and Jurkat whole cell lysate (**ab7899**). Human breast carcinoma and clear cell carcinoma tissue. HepG2 cells. Permeabilized Jurkat cells.
General notes	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**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR12768
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab177152 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

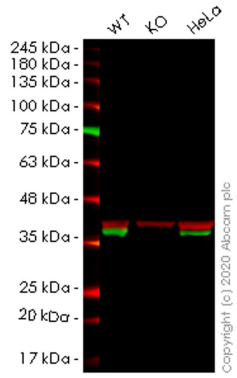
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 34 kDa (predicted molecular weight: 38 kDa).
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for IP.

Target

Function	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.
Sequence similarities	Contains 2 RRM (RNA recognition motif) domains.
Post-translational modifications	Arg-194, Arg-206 and Arg-225 are dimethylated, probably to asymmetric dimethylarginine. Sumoylated.
Cellular localization	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.

Images



Western blot - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

All lanes : Anti-hnRNP A1 antibody [EPR12768] (ab177152) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : HNRNPA1 knockout HEK293T cell lysate
Lane 3 : HeLa cell lysate

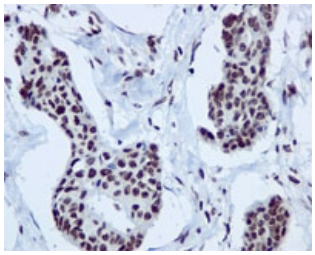
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 38 kDa
Observed band size: 37 kDa

Lanes 1-3: Merged signal (red and green). Green - ab177152 observed at 37 kDa. Red - loading control **ab8245** observed at 36 kDa.

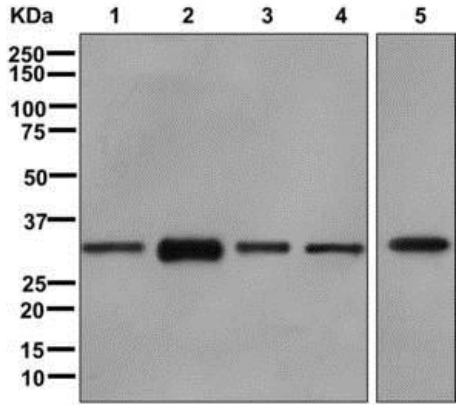
ab177152 Anti-hnRNP A1 antibody [EPR12768] was shown to specifically react with hnRNP A1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266193** (knockout cell lysate **ab256942**) was used. Wild-type and hnRNP A1 knockout samples were subjected to SDS-PAGE. ab177152 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling hnRNP A1 with ab177152 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

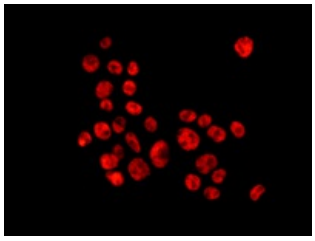
All lanes : Anti-hnRNP A1 antibody [EPR12768] (ab177152) at 1/1000 dilution

Lane 1 : MCF7 cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : K562 cell lysate
Lane 4 : HeLa cell lysate
Lane 5 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

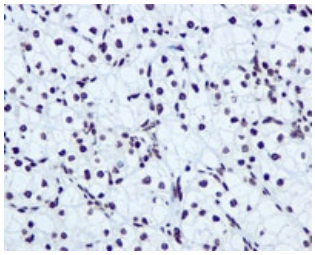
Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 38 kDa



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

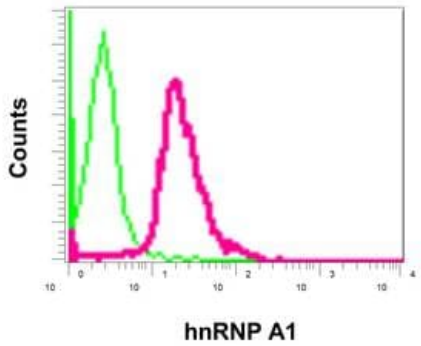
Immunofluorescent analysis of HepG2 cells labeling hnRNP A1 with ab177152 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

Immunohistochemical analysis of paraffin-embedded Human clear cell carcinoma tissue labeling hnRNP A1 with ab177152 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-hnRNP A1 antibody [EPR12768] (ab177152)

Intracellular flow cytometric analysis of permeabilized Jurkatcells labeling hnRNP A1with ab177152 at 1/10 dilution (red), or a rabbit IgG (negative) (green).

Anti-hnRNP A1 antibody [EPR12768] (ab177152)

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