

Product datasheet

Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free ab240196

KO VALIDATED Recombinant RabMAb[®]

6 Images

Overview

Product name	Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free
Description	Rabbit monoclonal [EPR12768] to hnRNP A1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt, ICC/IF, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human hnRNP A1 aa 300 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: P09651
Positive control	WB: HEK-293T and HeLa cell lysates.
General notes	<p>Ab240196 is the carrier-free version of ab177152. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab240196 is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar[®] is a trademark of Fluidigm Canada Inc.</i></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p>

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12768
Isotype	IgG

Applications

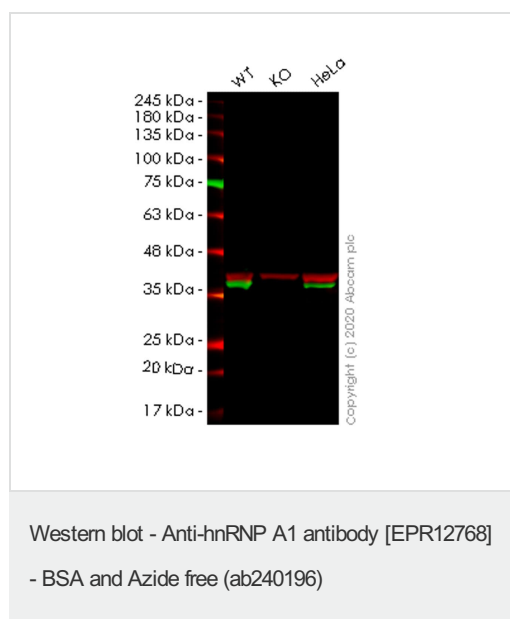
Our [Abpromise guarantee](#) covers the use of **ab240196** in the following tested applications.

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

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 38 kDa).
Flow Cyt		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
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



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

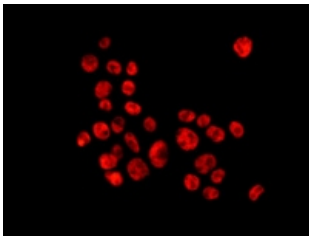
[why is the actual band size different from the predicted?](#)

This data was developed using the same antibody clone in a different buffer formulation ([ab177152](#)).

Lanes 1-3: Merged signal (red and green). Green - [ab177152](#)

observed at 37 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

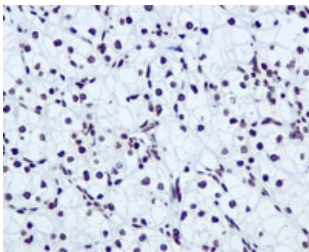
[ab177152](#) Anti-hnRNP A1 antibody [EPR12768] was shown to specifically react with hnRNP A1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266193](#) (knockout cell lysate [ab256942](#)) was used. Wild-type and hnRNP A1 knockout samples were subjected to SDS-PAGE. [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.



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free ([ab240196](#))

Immunofluorescent analysis of HepG2 cells labeling hnRNP A1 with [ab177152](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177152](#)).

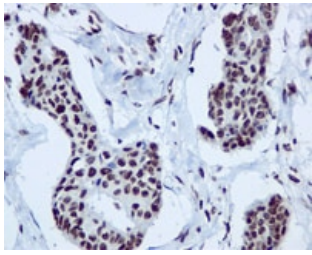


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free ([ab240196](#))

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177152](#)).

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

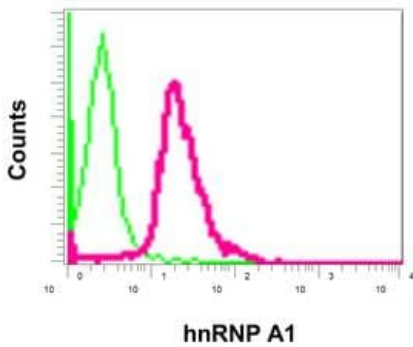


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free (ab240196)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177152](#)).

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







Flow Cytometry - Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free (ab240196)

Flow cytometric analysis of permeabilized Jurkat cells labeling hnRNP A1 with [ab177152](#) at 1/10 dilution (red), or a rabbit IgG (negative) (green).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab177152](#)).

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-hnRNP A1 antibody [EPR12768] - BSA and Azide free (ab240196)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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