

Product datasheet

Anti-hnRNP A1 antibody [EPR12768] (HRP) ab198535

Recombinant RabMAb

2 Images

Overview

<b>Product name</b>	Anti-hnRNP A1 antibody [EPR12768] (HRP)
<b>Description</b>	Rabbit monoclonal [EPR12768] to hnRNP A1 (HRP)
<b>Host species</b>	Rabbit
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat ▲
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) corresponding to Human hnRNP A1 aa 300 to the C-terminus (Cysteine residue). Database link: <a href="#">P09651</a>
<b>Positive control</b>	WB: MCF7, HepG2, K562, HeLa and Jurkat whole cell lysates. IHC-P: human testis (seminoma) tissue sections.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Stable for 12 months at -20°C. Store In the Dark.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.1% Proclin Constituents: PBS, 30% Glycerol, 1% BSA

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12768
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab198535** 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
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 34 kDa (predicted molecular weight: 38 kDa).

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Contains 2 RRM (RNA recognition motif) domains.
<b>Post-translational modifications</b>	Arg-194, Arg-206 and Arg-225 are dimethylated, probably to asymmetric dimethylarginine. Sumoylated.
<b>Cellular localization</b>	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] (HRP) (ab198535)

**All lanes :** Anti-hnRNP A1 antibody [EPR12768] (HRP) (ab198535) at 1/5000 dilution

**Lane 1 :** MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

**Lane 2 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 3 :** K562 (Human erythromyeloblastoid leukemia cell line) Whole Cell Lysate

**Lane 4 :** HeLa whole cell lysate ([ab150035](#))

**Lane 5 :** Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

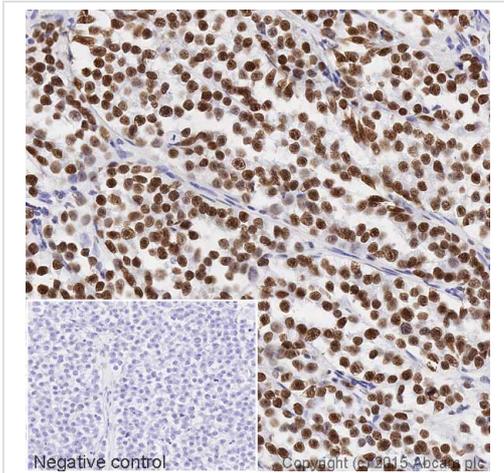
**Predicted band size:** 38 kDa

**Observed band size:** 34 kDa

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

**Exposure time:** 14 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab198535 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP A1 antibody [EPR12768] (HRP) (ab198535)

IHC image of hnRNP A1 staining in a section of formalin-fixed paraffin-embedded human testis (seminoma) tissue\*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab198535 at 1/100 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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