abcam

Product datasheet

Anti-HNRPAB antibody [EPR16944] ab199724

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-HNRPAB antibody [EPR16944]
Description	Rabbit monoclonal [EPR16944] to HNRPAB
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T, K562, Jurkat, HeLa, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Human fetal brain lysate; Mouse brain and rat brain lysates. IHC-P: Human cervix carcinoma, mouse liver and rat cardiac muscle tissues. ICC/IF: Jurkat cells. IP: K562 whole cell lysate.
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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16944

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab199724 in the following tested applications.

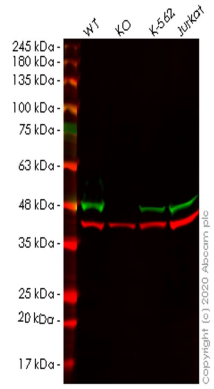
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 1 µg/ml.
IP		1/30.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★☆ (1)	1/1000. Detects a band of approximately 42 kDa (predicted molecular weight: 36 kDa).
ICC/IF		1/500.

Target

Function	Binds single-stranded RNA. Has a high affinity for G-rich and U-rich regions of hnRNA. Also binds to APOB mRNA transcripts around the RNA editing site.
Tissue specificity	Ubiquitous.
Sequence similarities	Contains 2 RRM (RNA recognition motif) domains.
Post-translational modifications	Dimethylation at Arg-322 is probably asymmetric.
Cellular localization	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images



Western blot - Anti-HNRPAB antibody [EPR16944] (ab199724)

All lanes : Anti-HNRPAB antibody [EPR16944] (ab199724) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : HNRNPAB knockout HEK293T cell lysate
Lane 3 : K-562 cell lysate
Lane 4 : Jurkat cell lysate

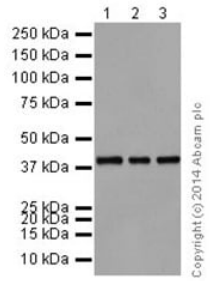
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 36 kDa
Observed band size: 48 kDa

Lanes 1-4: Merged signal (red and green). Green - ab199724 observed at 48 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab199724 Anti-HNRPAB antibody [EPR16944] was shown to specifically react with HNRPAB in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266459** (knockout cell lysate **ab257467**) was used. Wild-type and HNRPAB knockout samples were subjected to SDS-PAGE. ab199724 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2. 5 hours 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.



Western blot - Anti-HNRPAB antibody [EPR16944] (ab199724)

All lanes : Anti-HNRPAB antibody [EPR16944] (ab199724) at 1/5000 dilution

Lane 1 : K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate
Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate
Lane 3 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

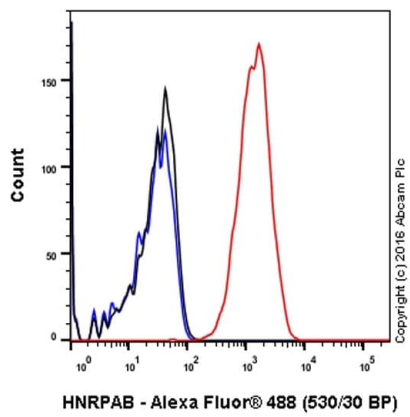
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa
Observed band size: 42 kDa

Exposure time: 5 seconds

The expression profile observed is consistent with what has been described in the literature PMID: 22332140.

Blocking/Dilution buffer: 5% NFDM/TBST.

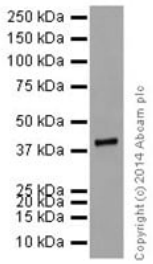


Flow Cytometry (Intracellular) - Anti-HNRPAB antibody [EPR16944] (ab199724)

ab199724 staining HNRPAB in Jurkat (human acute T cell leukemia) cellsby intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a dilution of 1/2700. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Western blot - Anti-HNRPAB antibody [EPR16944] (ab199724)

Anti-HNRPAB antibody [EPR16944] (ab199724) at 1/5000 dilution + Human fetal brain lysate at 20 µg

Secondary

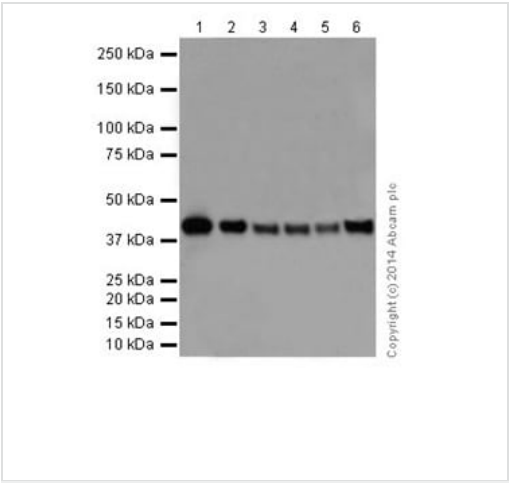
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa
Observed band size: 42 kDa

Exposure time: 10 seconds

The expression profile observed is consistent with what has been described in the literature PMID: 22332140.

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HNRPAB antibody [EPR16944] (ab199724)

All lanes : Anti-HNRPAB antibody [EPR16944] (ab199724) at 1/1000 dilution

Lane 1 : Mouse brain lysates
Lane 2 : Rat brain lysates
Lane 3 : C6 (Rat glial tumor cells) whole cell lysate
Lane 4 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 6 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

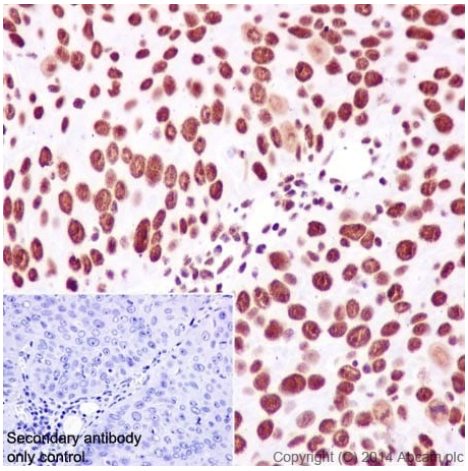
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa
Observed band size: 42 kDa

Exposure time: 10 seconds

The expression profile observed is consistent with what has been described in the literature PMID: 22332140.

Blocking/Dilution buffer: 5% NFDM/TBST.

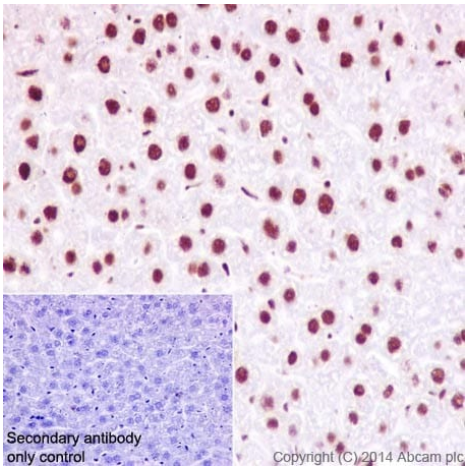


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNRPAB antibody [EPR16944] (ab199724)

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling HNRPAB with ab199724 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear staining on Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

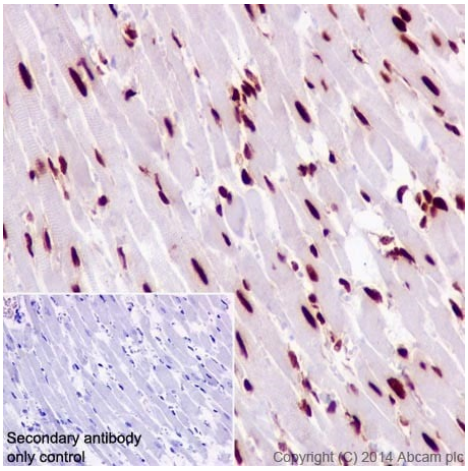


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNRPAB antibody [EPR16944] (ab199724)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling HNRPAB with ab199724 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear staining on mouse liver tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

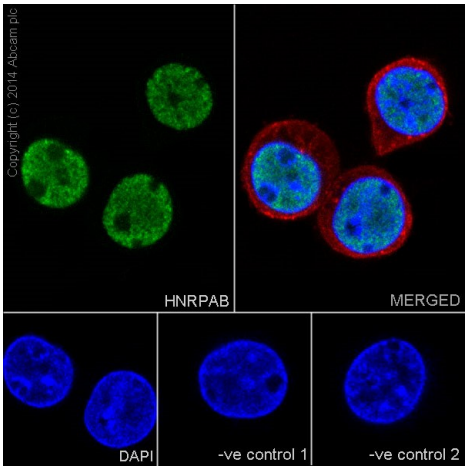


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNRPAB antibody [EPR16944] (ab199724)

Immunohistochemical analysis of paraffin-embedded rat cardiac muscle tissue labeling HNRPAB with ab199724 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear staining on rat cardiac muscle tissue is observed. Counter stained with Hematoxylin.

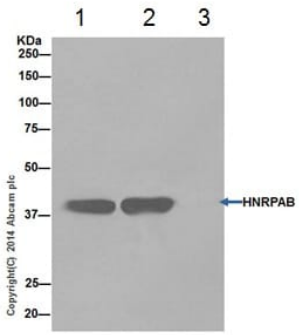
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-HNRPAB antibody [EPR16944] (ab199724)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling HNRPAB with ab199724 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on Jurkat cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).
The negative controls are as follows:-
-ve control 1: ab199724 at 1/500 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunoprecipitation - Anti-HNRPAB antibody [EPR16944] (ab199724)

HNRPAB was immunoprecipitated from 1mg of K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate with ab199724 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab199724 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: K562 whole cell lysate 10 µg (Input). Lane 2: ab199724 IP in K562 whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab199724 in K562 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Anti-HNRPAB antibody [EPR16944] (ab199724)

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