

Product datasheet

Anti-HNRNPA0 antibody [EP16085] ab197023

KO VALIDATED Recombinant RabMAB

[1 References](#) [9 Images](#)

Overview

Product name	Anti-HNRNPA0 antibody [EP16085]
Description	Rabbit monoclonal [EP16085] to HNRNPA0
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T, HeLa, Jurkat, A549, 293 Mouse brain, Rat brain, C6, RAW 264.7, PC-12 and NIH/3T3 lysates. IHC-P: Human cerebral cortex and Mouse spleen tissues. ICC/IF and Flow Cyt (intra): HeLa cells.
General notes	<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>

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	EP16085

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab197023 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)		1/150.
ICC/IF		1/1000.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 32, 34 kDa (predicted molecular weight: 31 kDa).

Target

Function

This protein is a component of ribonucleosomes.

Sequence similarities

Contains 2 RRM (RNA recognition motif) domains.

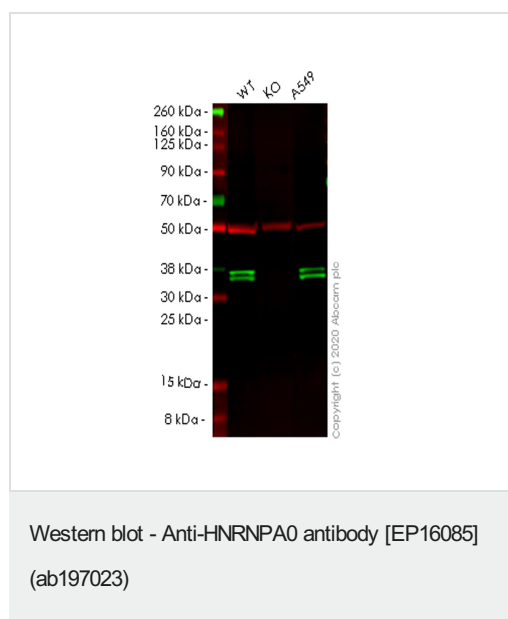
Post-translational modifications

Arg-291 is dimethylated, probably to asymmetric dimethylarginine.

Cellular localization

Nucleus. Component of ribonucleosomes.

Images



All lanes : Anti-HNRNPA0 antibody [EP16085] (ab197023) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : HNRNPA0 knockout HEK293T cell lysate

Lane 3 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

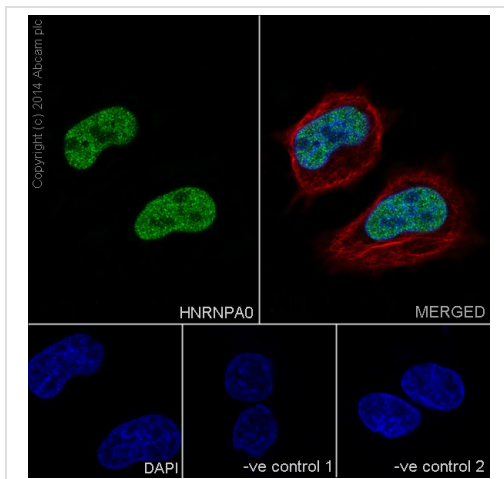
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 31 kDa

Observed band size: 32,34 kDa

Lanes 1-3: Merged signal (red and green). Green - ab197023 observed at 32,34 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab197023 Anti-HNRNPA0 antibody [EP16085] was shown to specifically react with HNRNPA0 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266314** (knockout cell lysate **ab257989**) was used. Wild-type and HNRNPA0 knockout samples were subjected to SDS-PAGE. ab197023 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.



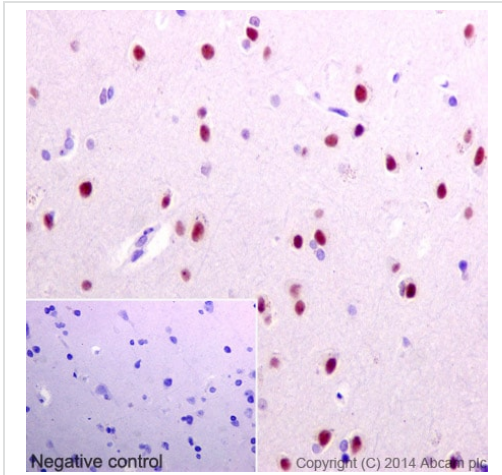
Immunocytochemistry/ Immunofluorescence - Anti-HNRNPA0 antibody [EP16085] (ab197023)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling HNRNPA0 with ab197023 at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on HeLa cell line is observed. The nuclear counter stain 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: ab197023 at 1/1000 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 1/400 dilution.

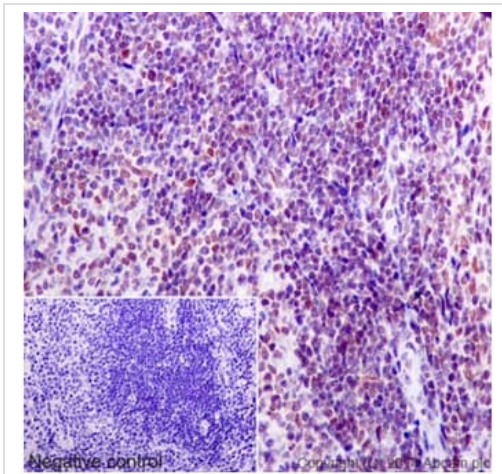


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNRNPA0 antibody [EP16085] (ab197023)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex labeling HNRNPA0 with ab197023 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Human cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

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

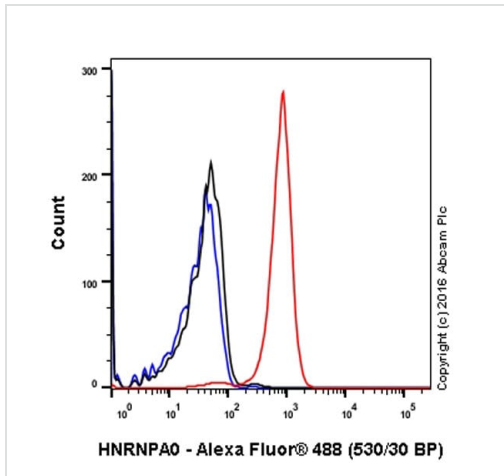


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNRNPA0 antibody [EP16085] (ab197023)

Immunohistochemical analysis of paraffin-embedded Mouse spleen labeling HNRNPA0 with ab197023 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Mouse spleen tissue is observed. Counter stained with Hematoxylin.

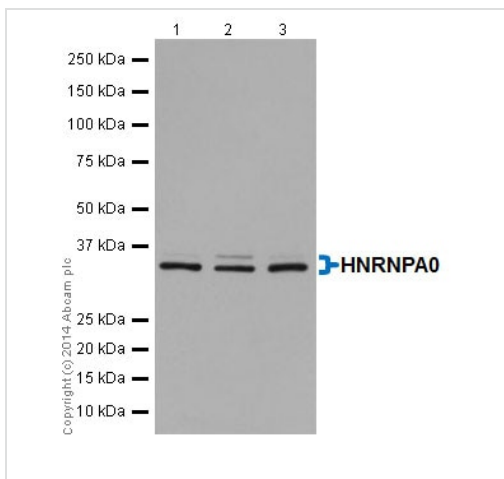
Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

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



Flow Cytometry (Intracellular) - Anti-HNRNPA0 antibody [EP16085] (ab197023)

Intracellular Flow Cytometry analysis of HeLa cells labelling HNRNPA0 (red) with purified ab197023 at dilution of 1/150. The secondary antibody used was Alexa Fluor® 488 goat-anti-rabbit IgG (1/2000). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Isotype control antibody was Rabbit monoclonal IgG (black). The blue line shows cells without incubation with primary antibody and secondary antibody.



Western blot - Anti-HNRNPA0 antibody [EP16085] (ab197023)

All lanes : Anti-HNRNPA0 antibody [EP16085] (ab197023) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) lysate

Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) lysate

Lane 3 : A549 (Human lung carcinoma) lysate

Lysates/proteins at 20 µg per lane.

Secondary

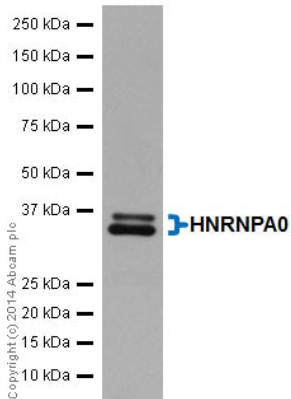
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 31 kDa

Observed band size: 32,34 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFD/MTBST.



Western blot - Anti-HNRNPA0 antibody [EP16085] (ab197023)

Anti-HNRNPA0 antibody [EP16085] (ab197023) at 1/1000 dilution + 293 (Human embryonic kidney) lysate at 20 µg

Secondary

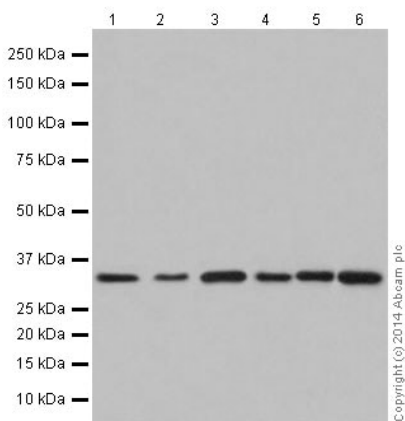
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 31 kDa

Observed band size: 32,34 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-HNRNPA0 antibody [EP16085] (ab197023)

All lanes : Anti-HNRNPA0 antibody [EP16085] (ab197023) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Rat brain lysate

Lane 3 : C6 (Rat glial tumor cells) lysate

Lane 4 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) lysate

Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma) lysate

Lane 6 : NIH/3T3 (Mouse embryo fibroblast cells) 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: 31 kDa

Observed band size: 32 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?

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

Anti-HNRNPA0 antibody [EP16085] (ab197023)

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