

Product datasheet

Anti-hnRNP K antibody [EP943Y] ab52600

Recombinant **RabMAb**

★★★★★ 1 Abreviews 23 References 11 Images

Overview

Product name	Anti-hnRNP K antibody [EP943Y]
Description	Rabbit monoclonal [EP943Y] to hnRNP K
Host species	Rabbit
Specificity	This antibody detects both phosphorylated and unphosphorylated hnRNP K.
Tested applications	Suitable for: Flow Cyt, WB, IP, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human hnRNP K (N terminal). The exact sequence is proprietary.
Positive control	WB: Jurkat cell lysate; ICC/IF: HeLa and MCF7 cells; Flow Cyt: HeLa cells; IHC-P: Human breast carcinoma, Human lung carcinoma, Mouse stomach, and Rat stomach tissues; IP: Jurkat
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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP943Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab52600** in the following tested applications.

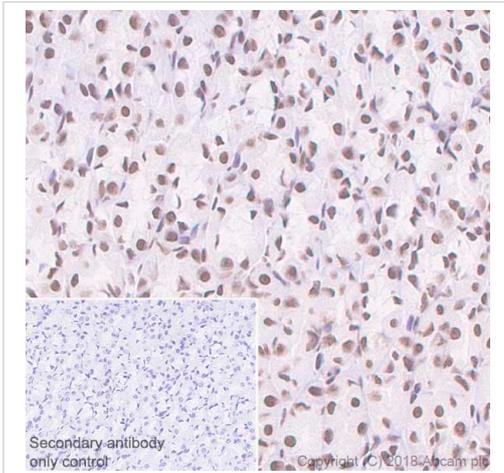
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/20.
WB		1/100000. Detects a band of approximately 60 kDa (predicted molecular weight: 51 kDa).
IP		1/20. For unpurified use at 1/50
IHC-P	★★★★★	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
ICC/IF		1/50. For unpurified use at 1/100 - 1/250.

Target

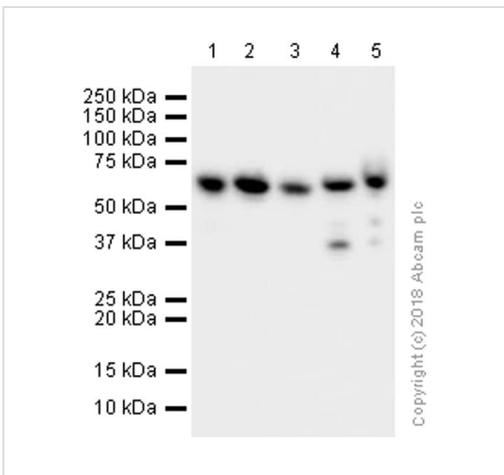
Function	One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly(C) single-stranded DNA.
Sequence similarities	Contains 3 KH domains.
Post-translational modifications	Arg-296 and Arg-299 are dimethylated, probably to asymmetric dimethylarginine.
Cellular localization	Cytoplasm. Nucleus > nucleoplasm. In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [EP943Y] (ab52600)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling hnRNP K with purified ab52600 at 1:2000 dilution (0.05 µg/ml). Heat mediated antigen retrieval was performed. Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-hnRNP K antibody [EP943Y] (ab52600)

All lanes : Anti-hnRNP K antibody [EP943Y] (ab52600) at 1/10000 dilution (Purified)

Lane 1 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

Lane 4 : MEF (Mouse embryonic fibroblast (immortalized)) whole cell lysates

Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lysates/proteins at 20 µg per lane.

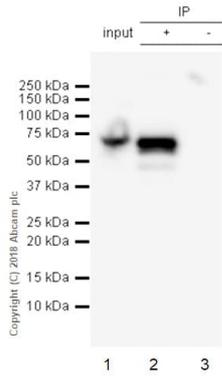
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 51 kDa

Observed band size: 60 kDa

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



Immunoprecipitation - Anti-hnRNP K antibody
[EP943Y] (ab52600)

ab52600 (purified) at 1:20 dilution (2µg) immunoprecipitating hnRNP K in Jurkat whole cell lysate.

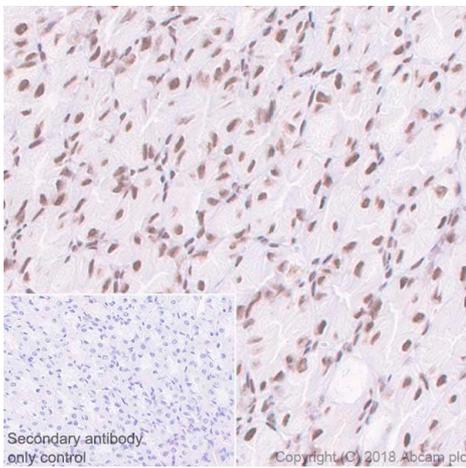
Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10µg

Lane 2 (+): ab52600 & Jurkat whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab52600 in Jurkat whole cell lysate

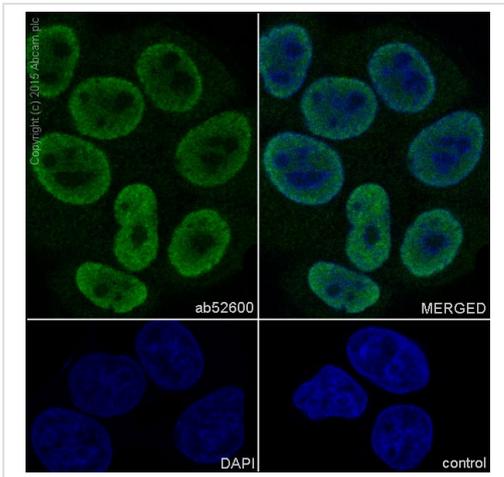
For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



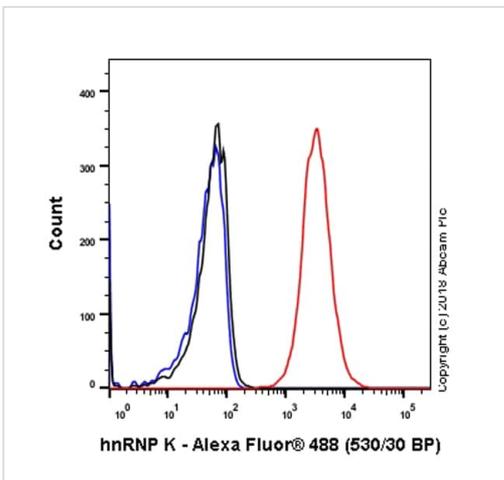
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody
[EP943Y] (ab52600)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse stomach tissue sections labeling hnRNP K with purified ab52600 at 1:2000 dilution (0.05 µg/ml). Heat mediated antigen retrieval was performed. Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



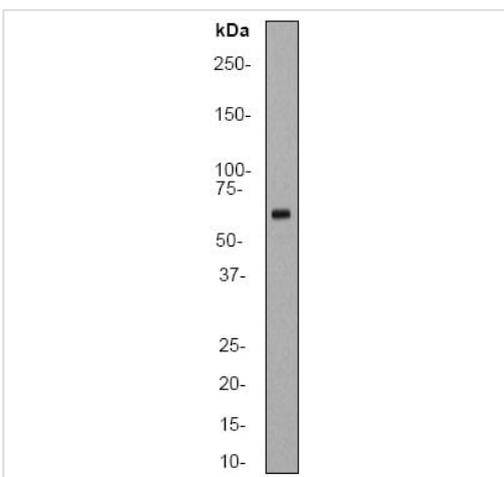
Immunocytochemistry/ Immunofluorescence - Anti-hnRNP K antibody [EP943Y] (ab52600)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling hnRNP K with purified ab52600 at 1:50 dilution (1.9 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with None. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry - Anti-hnRNP K antibody [EP943Y] (ab52600)

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling hnRNP K with purified ab52600 at 1:20 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-hnRNP K antibody [EP943Y] (ab52600)

Anti-hnRNP K antibody [EP943Y] (ab52600) at 1/100000 dilution + Jurkat cell lysate at 10 µg

Secondary

HRP-labelled goat anti-rabbit at 1/2000 dilution

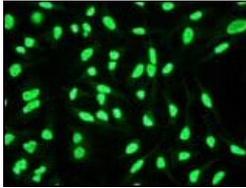
Predicted band size: 51 kDa

Observed band size: ~60 kDa [why is the actual band size different from the predicted?](#)



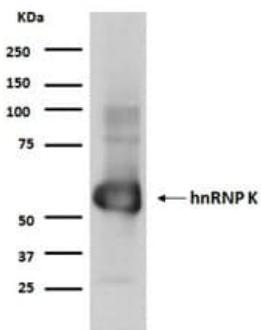
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [EP943Y] (ab52600)

Immunohistochemical staining of paraffin-embedded human breast carcinoma tissue using ab52600 at a dilution of 1/100-1/250.



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP K antibody [EP943Y] (ab52600)

Fluorescent immunostaining of HeLa cells using ab52600 at a dilution of 1/100-1/250.



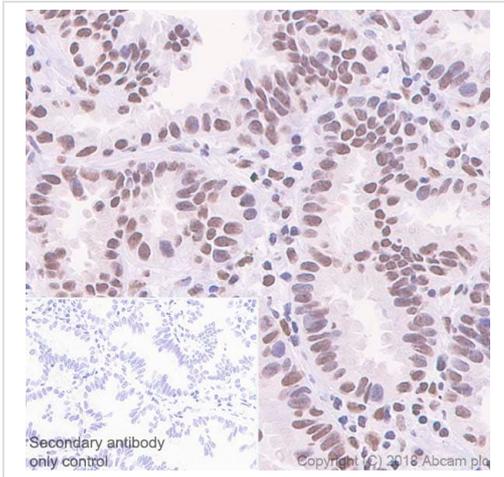
Immunoprecipitation - Anti-hnRNP K antibody [EP943Y] (ab52600)

ab52600 at 1/100 immunoprecipitating hnRNP K in HeLa whole cell lysate.

For western blotting, a primary antibody was used at 1/1000 and a HRP-conjugated goat-anti-rabbit IgG was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling hnRNP K with purified ab52600 at 1:2000 dilution (0.05 µg/ml). Heat mediated antigen retrieval was performed Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [EP943Y] (ab52600)

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