abcam

Product datasheet

Anti-hnRNP K antibody [EP943Y] ab52600

Recombinant RabMAb

2 Abreviews 28 References 12 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:** WB, IP, IHC-P, ICC/IF, Flow Cyt (Intra)
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 (intra): HeLa cells; IHC-P: Human breast carcinoma, Human lung carcinoma, Mouse stomach, and Rat stomach tissues; IP: Jurkat
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP943Y
Isotype	IgG

Applications

The Abpromise guarantee 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
WB	★★☆☆☆ (1)	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)	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.**
Flow Cyt (Intra)		1/20.

Target

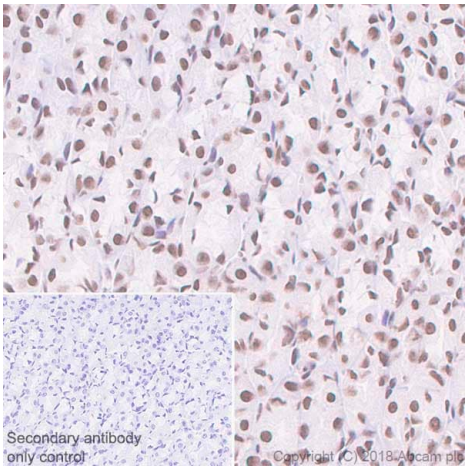
Function One of the major pre-mRNA-binding proteins. Binds tenaciously to poly(C) sequences. Likely to play a role in the nuclear metabolism of hnRNAs, particularly for pre-mRNAs that contain cytidine-rich sequences. Can also bind poly(C) single-stranded DNA.

Sequence similarities Contains 3 KH domains.

Post-translational modifications Arg-296 and Arg-299 are dimethylated, probably to asymmetric dimethylarginine.

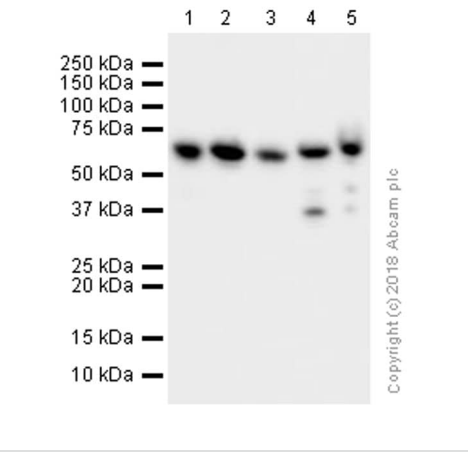
Cellular localization Cytoplasm. Nucleus > nucleoplasm. In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear.

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)

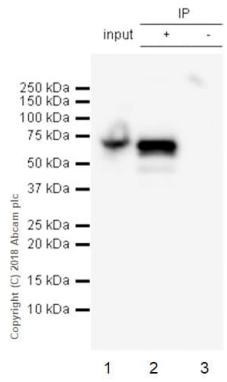
All lanes : Anti-hnRNP K antibody [EP943Y] (ab52600) at 1/10000 dilution (Purified)

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.

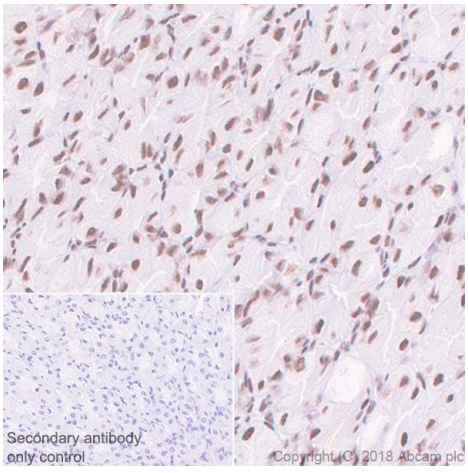
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 51 kDa
Observed band size: 60 kDa



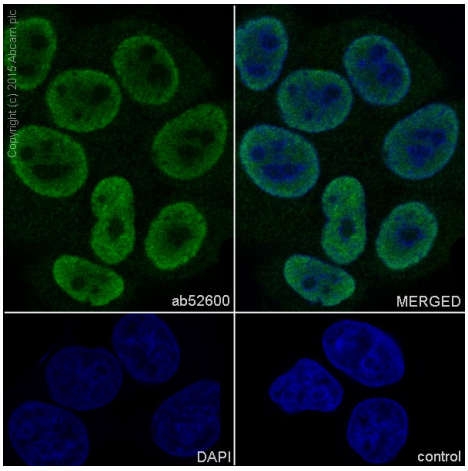
Immunoprecipitation - Anti-hnRNP K antibody [EP943Y] (ab52600)

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.



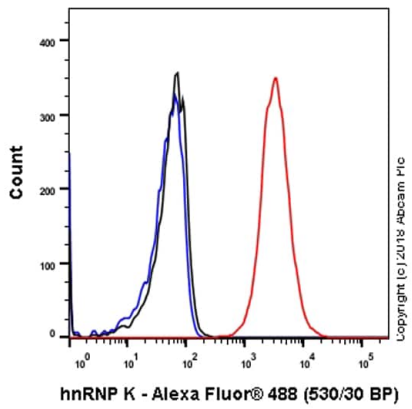
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [EP943Y] (ab52600)

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.



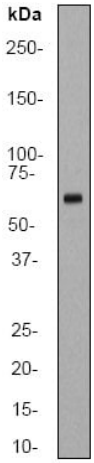
Immunocytochemistry/ Immunofluorescence - Anti-hnRNP K antibody [EP943Y] (ab52600)

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

Intracellular 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)

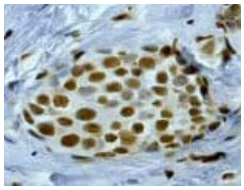
Anti-hnRNP K antibody [EP943Y] (ab52600) at 1/100000 dilution + Jurkat cell lysate at 10 µg

Secondary

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

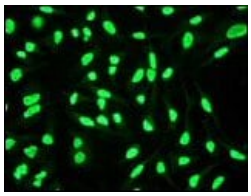
Predicted band size: 51 kDa

Observed band size: ~60 kDa



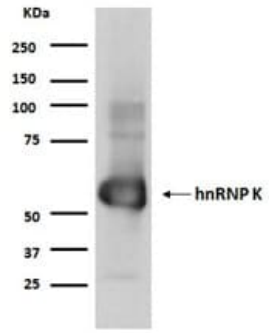
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [EP943Y] (ab52600)

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.



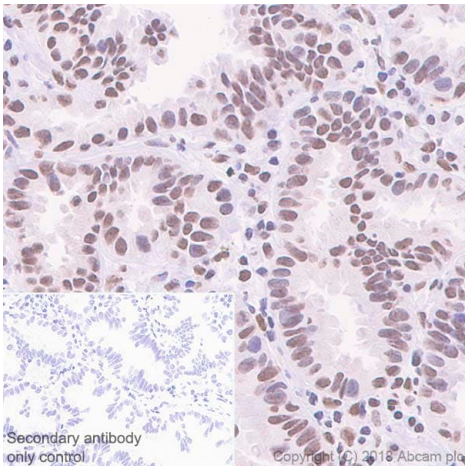
Immunoprecipitation - Anti-hnRNP K antibody [EP943Y] (ab52600)

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).

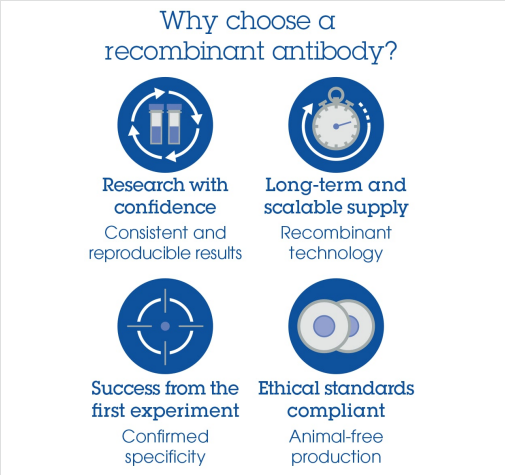
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 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 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.



Anti-hnRNP K antibody [EP943Y] (ab52600)

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