


### Anti-hnRNP K antibody [F45 P9 C7] ab23644

★★★★★ [2 Abreviews](#) [14 References](#) [7 图像](#)

#### 概述

产品名称	Anti-hnRNP K抗体[F45 P9 C7]
描述	小鼠单克隆抗体[F45 P9 C7] to hnRNP K
宿主	Mouse
经测试应用	适用于: ICC/IF, WB, IHC-P, Flow Cyt (Intra)
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Rabbit, Chicken 
免疫原	Synthetic peptide corresponding to Human hnRNP K aa 450 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab32584</a> )
阳性对照	This antibody gave a positive signal in the following lysates: NIH 3T3 whole cell, MEF1 whole cell; PC12 whole cell; mouse testis tissue; mouse lung tissue. FFPE: Human colon tissue sections ICC/IF: HeLa cells
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine

Some batches contain 6.97% L-Arginine as a stabilizing agent. For lot-specific buffer information, please contact our Scientific Support team.

纯度	Protein G purified
克隆	单克隆
克隆编号	F45 P9 C7
骨髓瘤	Ag8.653
同种型	IgG1
轻链类型	kappa

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab23644于以下的经测试应用

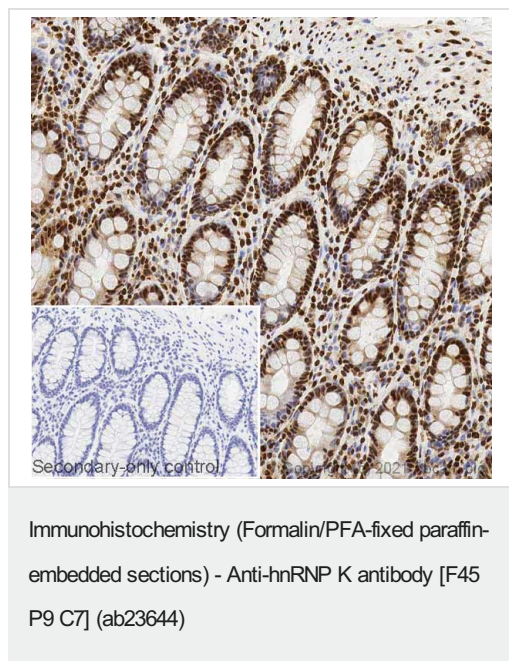
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 64 kDa (predicted molecular weight: 51 kDa).
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use 1µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## 靶标

功能	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.
序列相似性	Contains 3 KH domains.
翻译后修饰	Arg-296 and Arg-299 are dimethylated, probably to asymmetric dimethylarginine.
细胞定位	Cytoplasm. Nucleus > nucleoplasm. In case of ASFV infection, there is a shift in the localization which becomes predominantly nuclear.

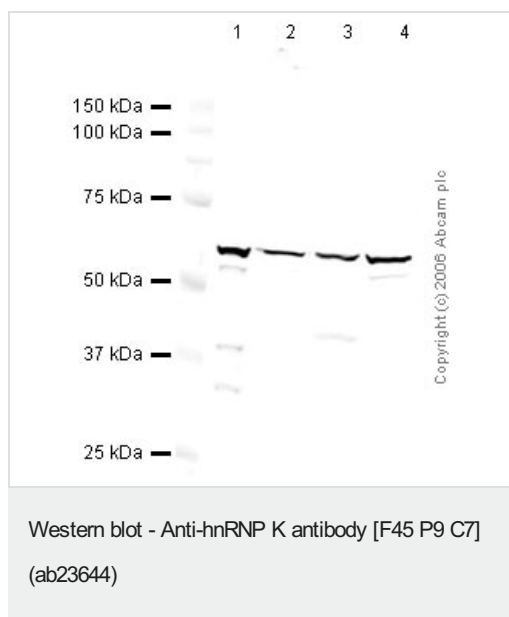
## 图片



IHC image of hnRNP K staining in a section of formalin-fixed paraffin-embedded normal human colon\* performed on a Leica BOND™ system using the standard protocol F. 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 ab23644, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

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

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.



**Lane 1 :** Marker

**Lanes 2-5 :** Anti-hnRNP K antibody [F45 P9 C7] (ab23644) at 1 µg/ml

**Lane 2 :** HeLa (Human epithelial carcinoma cell line) Nuclear Lysate ([ab27251](#)) at 20 µg

**Lane 3 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate ([ab27252](#)) at 20 µg

**Lane 4 :** Jurkat whole cell lysate ([ab7899](#)) at 20 µg

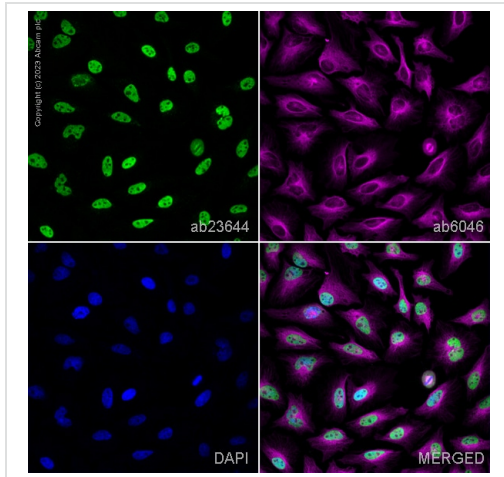
**Lane 5 :** HEK-293 whole cell lysate ([ab7902](#)) at 20 µg

### Secondary

**Lanes 2-5 :** Rabbit Anti-Mouse IgG H&L (HRP) ([ab6728](#)) at 1/10000 dilution

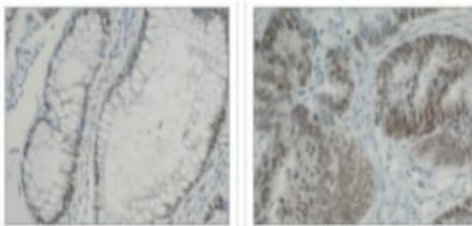
Performed under reducing conditions.

**Predicted band size:** 51 kDa



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP K antibody [F45 P9 C7] (ab23644)

ab23644 staining hnRNP K in HeLa cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab23644 at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 100% methanol (5 min). Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



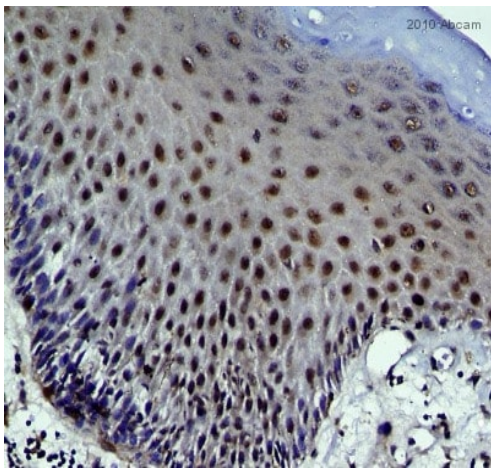
Normal colon

Colon carcinoma

2006 Abcam

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [F45 P9 C7] (ab23644)

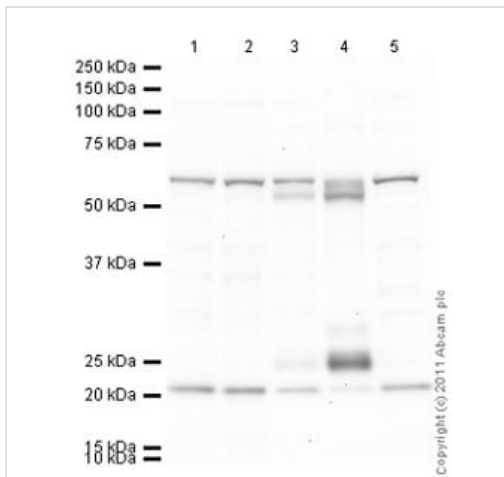
Formalin-fixed, paraffin embedded tissue sections from human normal colon or human colon carcinoma stained with ab23644 mouse monoclonal to hnRNP K. hnRNP K expression is increased in the tumour tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP K antibody [F45 P9 C7] (ab23644)

This image is courtesy of an Abreview submitted by Satyendra Tripathi

ab23644 staining hnRNP K in Human head and neck tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 1 hour at 25°C; antigen retrieval was by heat mediation with Tris EDTA (pH9). Samples were incubated with primary antibody (1 µg/ml in TBST) for 16 hours at 4°C. An undiluted HRP-conjugated Rabbit anti-mouse polyclonal was used as the secondary antibody.



Western blot - Anti-hnRNP K antibody [F45 P9 C7] (ab23644)

**All lanes :** Anti-hnRNP K antibody [F45 P9 C7] (ab23644) at 5 µg/ml

**Lane 1 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 2 :** MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 3 :** Testis (Mouse) Tissue Lysate

**Lane 4 :** Lung (Mouse) Tissue Lysate

**Lane 5 :** PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

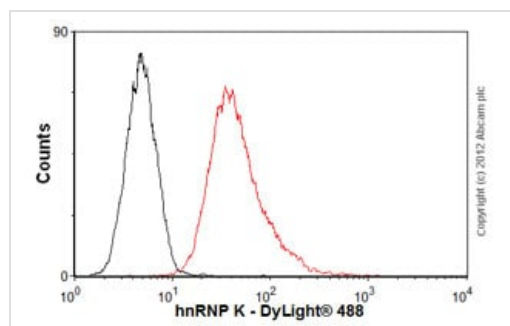
Performed under reducing conditions.

**Predicted band size:** 51 kDa

**Observed band size:** 56 kDa

**Additional bands at:** 21 kDa, 24 kDa, 54 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 4 minutes



Flow Cytometry (Intracellular) - Anti-hnRNP K antibody [F45 P9 C7] (ab23644)

Overlay histogram showing HeLa cells stained with ab23644 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab23644, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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