


### Anti-FLCN antibody [EPNCIR147] ab124885

敲除验证 重组 RabMAb

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#### 概述

产品名称	Anti-FLCN抗体[EPNCIR147]
描述	兔单克隆抗体[EPNCIR147] to FLCN
宿主	Rabbit
经测试应用	适用于: WB 不适用于: Flow Cyt, ICC/IF, IHC-P or IP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Recombinant fragment (GST-tag) corresponding to Human FLCN.
阳性对照	WB: Wild-type HeLa, HEK-293, HeLa, HEK-293T and NCCIT cell lysates.
常规说明	This antibody was developed as part of a collaboration between the National Cancer Institute's Center for Cancer Research and the lab of Marston Linehan. <a href="#">View antibodies from NCI Center for Cancer Research Collaboration.</a>  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 <a href="#">see here</a> .  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified

克隆 单克隆  
 克隆编号 EPNCIR147  
 同种型 IgG

**应用**

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab124885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
WB		1/1000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 64 kDa).

**应用说明** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

**靶标**

**功能** May play a role in the pathogenesis of an uncommon form of kidney cancer through its association with an inherited disorder of the hair follicle (fibrofolliculomas). May be a tumor suppressor. May be involved in colorectal tumorigenesis. May be involved in energy and/or nutrient sensing through the AMPK and mTOR signaling pathways. May regulate phosphorylation of RPS6KB1.

**组织特异性** Expressed in most tissues tested, including skin, lung, kidney, heart, testis and stomach.

**疾病相关** Defects in FLCN are the cause of Birt-Hogg-Dube syndrome (BHD) [MIM:135150]. BHD is a rare autosomal dominant genodermatosis characterized by hair follicle hamartomas (fibrofolliculomas), kidney tumors, and spontaneous pneumothorax. Fibrofolliculomas are part of the triad of BHD skin lesions that also includes trichodiscomas and acrochordons. Onset of this dermatologic condition is invariably in adulthood. BHD is associated with a variety of histologic types of renal tumors, including chromophobe renal cell carcinoma (RCC), benign renal oncocytoma, clear-cell RCC and papillary type I RCC. Multiple lipomas, angioliopomas, and parathyroid adenomas are also seen in patients affected with this disease. The majority of mutations are predicted to prematurely terminate the protein.  
 Defects in FLCN are in some cases a cause of primary spontaneous pneumothorax (PSP) [MIM:173600]. PSP is a condition in which air is present in the pleural space in the absence of a precipitating event, such as trauma or lung disease. This results in secondary collapse of the lung, either partially or completely, and some degree of hypoxia. PSP is relatively common, with an incidence between 7.4-18/100'000 for men and 1.2-6/100'000 for women and a dose-dependent, increased risk among smokers. Most cases are sporadic, typically occurring in tall, thin men aged 10-30 years and generally while at rest. Familial PSP is rarer and usually is inherited as an autosomal dominant condition with reduced penetrance, although X-linked recessive and autosomal recessive inheritance have also been suggested.  
 Note=Defects in FLCN may be involved in renal cell carcinoma.

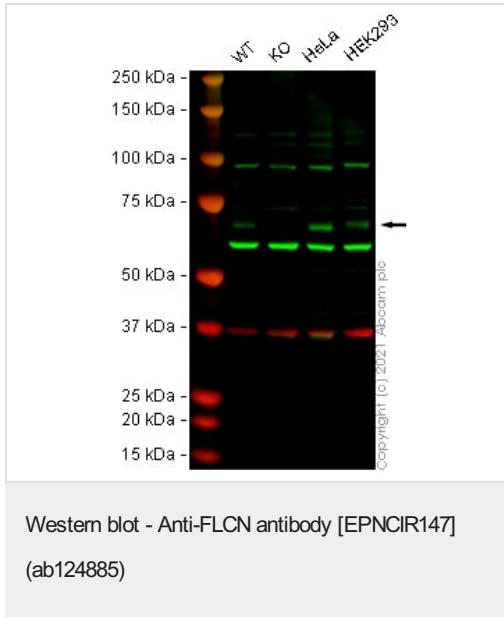
**序列相似性** Belongs to the folliculin family.

**发展阶段** Expressed in fetal lung, kidney, liver, and brain.

**翻译后修饰** Phosphorylated. Several different phosphorylated forms exist.

**细胞定位** Cytoplasm. Nucleus. Mainly localized in the nucleus. Co-localizes with FNIP1 and FNIP2 in the

图片



**All lanes** : Anti-FLCN antibody [EPNCIR147] (ab124885) at 1/1000 dilution

- Lane 1** : Wild-type HeLa cell lysate
- Lane 2** : FLCN knockout HeLa cell lysate
- Lane 3** : HeLa cell lysate
- Lane 4** : HEK-293 cell lysate

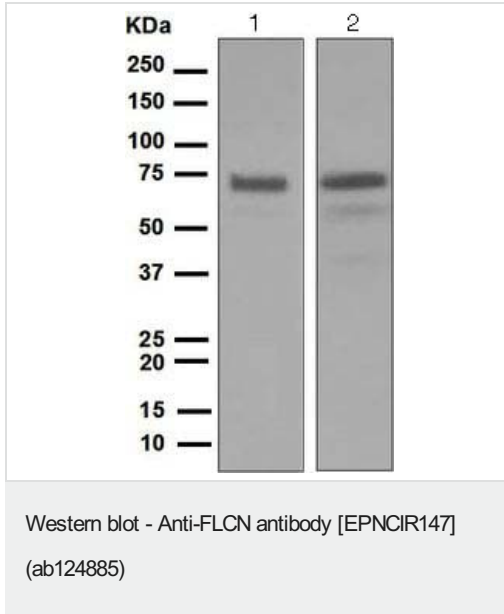
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 64 kDa  
**Observed band size:** 64 kDa

**Lanes 1 -4:** Merged signal (red and green). Green - ab124885 observed at 64 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab124885 was shown to react with FLCN in wild-type HeLa cells in Western blot with loss of signal observed in FLCN knockout cell line **ab265268** (FLCN knockout cell lysate **ab257953**). Wild-type HeLa and FLCN knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab124885 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



**All lanes** : Anti-FLCN antibody [EPNCIR147] (ab124885) at 1/1000 dilution

**Lane 1** : 293T cell lysate

**Lane 2** : NCCIT cell lysate

Lysates/proteins at 10 µg per lane.





**Secondary**

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 64 kDa

**Observed band size:** 70 kDa

Why choose a recombinant antibody?

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

Anti-FLCN antibody [EPNCIR147] (ab124885)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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