abcam

Product datasheet

Anti-FLCN antibody [EPNCIR147] ab124885

KO 評価済 リコンビナント RabMAb

4 References 画像数 3

製品の概要

製品名	Anti-FLCN antibody [EPNCIR147]
製品の詳細	Rabbit monoclonal [EPNCIR147] to FLCN
由来種	Rabbit
アプリケーション	**適用あり:** WB **適用なし:** Flow Cyt,ICC/IF,IHC-P or IP
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Rat
免疫原	Recombinant fragment (GST-tag) corresponding to Human FLCN.
ポジティブ・コントロール	WB: Wild-type HeLa, HEK-293, HeLa, HEK-293T and NCCIT cell lysates.
特記事項	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. **View antibodies from NCI Center for Cancer Research Collaboration**. 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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPNCIR147
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab124885の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 64 kDa).

追加情報 Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

ターゲット情報

機能 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.

組織特異性 Expressed in most tissues tested, including skin, lung, kidney, heart, testis and stomach.

関連疾患 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, angiolipomas, 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.

配列類似性 Belongs to the folliculin family.

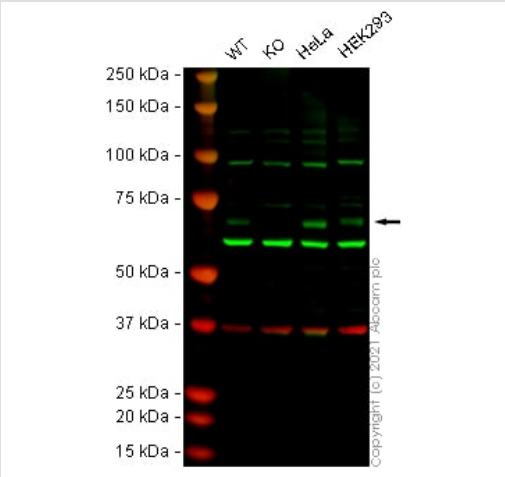
発生段階 Expressed in fetal lung, kidney, liver, and brain.

翻訳後修飾 Phosphorylated. Several different phosphorylated forms exist.

細胞内局在 Cytoplasm. Nucleus. Mainly localized in the nucleus. Co-localizes with FNIP1 and FNIP2 in the

cytoplasm.

画像



Western blot - Anti-FLCN antibody [EPNCIR147] (ab124885)

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

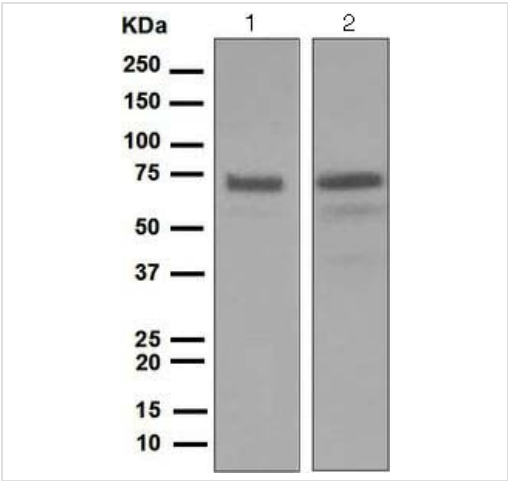
Lysates/proteins at 20 µg per lane.

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.



Western blot - Anti-FLCN antibody [EPNCIR147] (ab124885)

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

Anti-FLCN antibody [EPNCIR147] (ab124885)

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