


Anti-ALKBH5 antibody [EPR18958] ab195377

敲除验证
重组
RabMAb

★★★★☆
[4 Abreviews](#)
[51 References](#)
[6 图像](#)

概述

产品名称	Anti-ALKBH5抗体[EPR18958]
描述	兔单克隆抗体[EPR18958] to ALKBH5
宿主	Rabbit
特异性	This antibody has been tested in IHC-P on Human, Mouse and Rat testis sections. It worked well on Human, but not on the Mouse or Rat sections, under our experimental conditions.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Sheep, Goat, Horse, Guinea pig, Cow, Cat, Dog, Pig, Non human primates 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild type MEF, HeLa, HepG2 , PC-12, NIH/3T3, Jurkat, Neuro-2a, HEK-293T and F9 whole cell lysates. IHC-P: Human testis and kidney tissues.
常规说明	<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>

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified

克隆 单克隆
 克隆编号 EPR18958
 同种型 IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab195377 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。

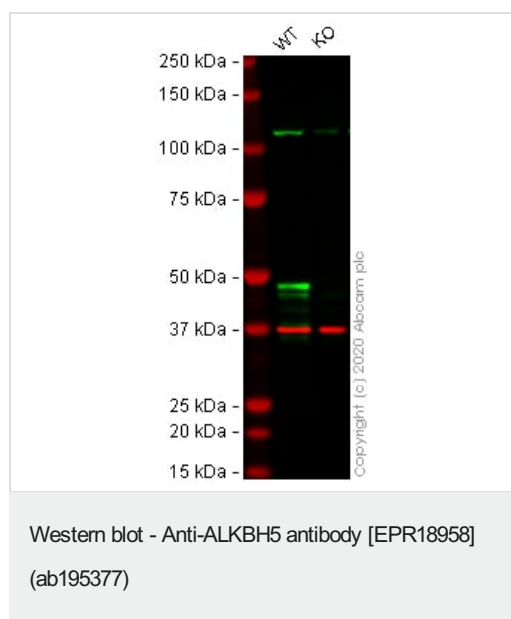
应用	Ab评论	说明
WB	★★★★★ (2)	1/1000. Detects a band of approximately 35-44 kDa (predicted molecular weight: 44 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Suitable for human tissues only.

靶标

相关性 Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes. Requires molecular oxygen, alpha-ketoglutarate and iron. Demethylation of m6A mRNA affects mRNA processing and export and is required for spermatogenesis.

细胞定位 Nucleus speckle

图片



All lanes : Anti-ALKBH5 antibody [EPR18958] (ab195377) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : ALKBH5 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

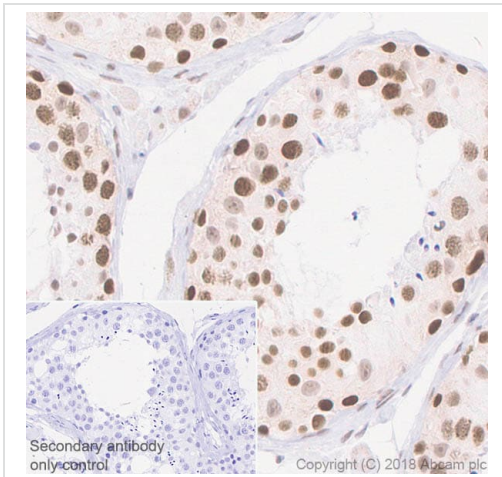
Performed under reducing conditions.

Predicted band size: 44 kDa

Observed band size: 48 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab195377 observed at 48 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

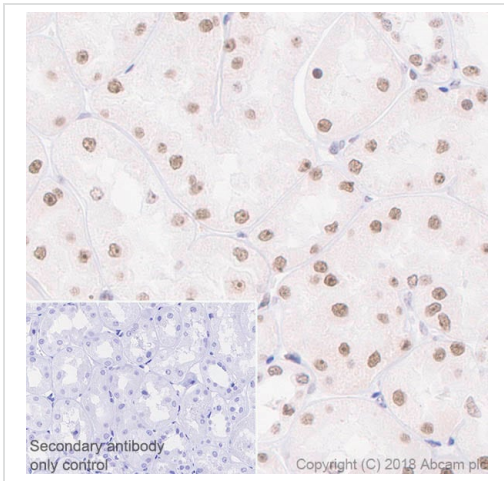
ab195377 was shown to react with ALKBH5 in wild-type HEK-293T cells in western blot with loss of signal observed in ALKBH5 knockout cell line **ab266762** (ALKBH5 knockout cell lysate **ab257349**). Wild-type and ALKBH5 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween[®]) before incubation with ab195377 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-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemical analysis of paraffin-embedded human testis tissue labeling ALKBH5 with ab195377 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining in human testis (PMID: 21264265; PMID: 27590511; PMID: 17979886) is observed. Counter stained with hematoxylin. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

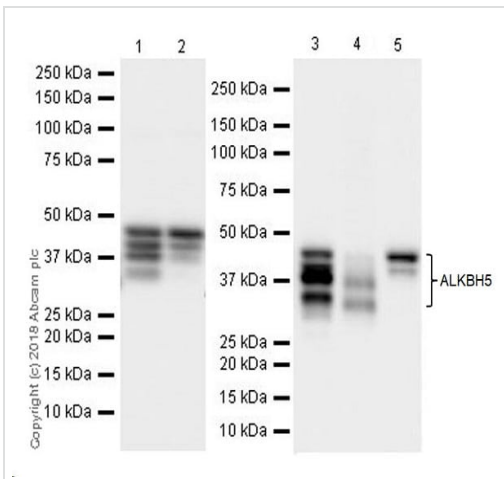
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALKBH5 antibody [EPR18958] (ab195377)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALKBH5 antibody [EPR18958] (ab195377)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling ALKBH5 with ab195377 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining in human kidney (PMID: 21264265) is observed. Counter stained with hematoxylin. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Western blot - Anti-ALKBH5 antibody [EPR18958] (ab195377)

Lanes 1-2 : Anti-ALKBH5 antibody [EPR18958] (ab195377) at 1/1000 dilution

Lanes 3-5 : Anti-ALKBH5 antibody [EPR18958] (ab195377) at 1/2000 dilution

Lane 1 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 2 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate

Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 4 : Neuro-2a (mouse neuroblastoma cell line) whole cell lysate

Lane 5 : F9 (mouse embryonic testicular cancer cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

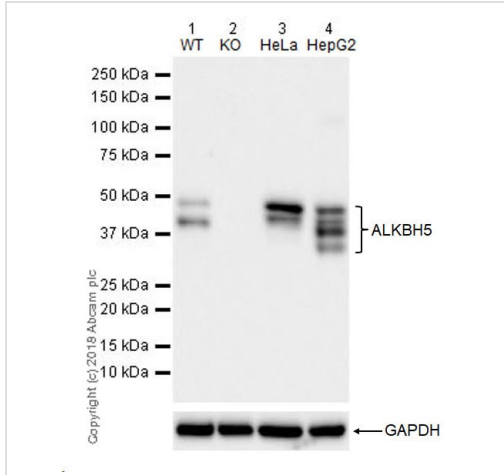
Predicted band size: 44 kDa

Observed band size: 35-44 kDa

Exposure time : Lanes 1 and 2: 15 seconds; Lanes 3 and 4: 26 seconds.

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular mass observed is consistent with the literature (PMID 21264265).



Western blot - Anti-ALKBH5 antibody [EPR18958] (ab195377)

All lanes : Anti-ALKBH5 antibody [EPR18958] (ab195377) at 1/5000 dilution

Lane 1 : Wild type MEF whole cell lysate

Lane 2 : ALKBH5 knockout MEF whole cell lysate

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 44 kDa

Observed band size: 35-44 kDa





Exposure time: 70 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

The Wt and ALKBH5 KO cell lysates were kindly provided by an anonymous collaborator.

The molecular mass observed is consistent with the literature (PMID 21264265).

Why choose a recombinant antibody?

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

Anti-ALKBH5 antibody [EPR18958] (ab195377)

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