

Anti-KAT1 / HAT1 antibody [EPR18661] ab193097

敲除验证
重组
RabMAb

11 图像

概述

产品名称	Anti-KAT1 / HAT1抗体[EPR18661]
描述	兔单克隆抗体[EPR18661] to KAT1 / HAT1
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, MCF7, F9, LLC, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; mouse thymus lysate; human fetal brain, fetal kidney, fetal heart and fetal spleen lysates; mouse brain, heart and kidney lysates; rat brain, heart and kidney lysates. IHC-P: Human tonsil; mouse and rat colon tissues. IP: F9 and HeLa whole cell lysates.
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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18661

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab193097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
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 45 kDa (predicted molecular weight: 49 kDa).
IP		1/100.

靶标

功能

Acetylates soluble but not nucleosomal histone H4 at 'Lys-5' (H4K5ac) and 'Lys-12' (H4K12ac) and, to a lesser extent, acetylates histone H2A at 'Lys-5' (H2AK5ac). Has intrinsic substrate specificity that modifies lysine in recognition sequence GXGKXG. May be involved in nucleosome assembly during DNA replication and repair as part of the histone H3.1 and H3.3 complexes. May play a role in DNA repair in response to free radical damage.

序列相似性

Belongs to the HAT1 family.

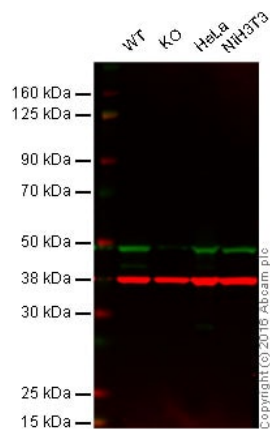
发展阶段

Highly expressed in mitotic cells (at protein level).

细胞定位

Nucleus matrix and Cytoplasm. Nucleus. Nucleus matrix. Nucleus > nucleoplasm. Localization is predominantly nuclear in normal cells. Treatment with hydrogen peroxide or ionizing radiation enhances nuclear localization through redistribution of existing protein.

图片



Western blot - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

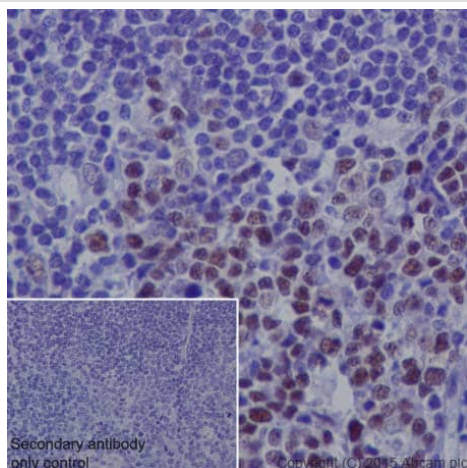
Lane 2: KAT1 / HAT1 knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: NIH3T3 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab193097 observed at 48 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab193097 was shown to specifically react with KAT1 / HAT1 when KAT1 / HAT1 knockout samples were used. Wild-type and KAT1 / HAT1 knockout samples were subjected to SDS-PAGE. ab193097 and **ab8245** (loading control to GAPDH) were diluted to 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

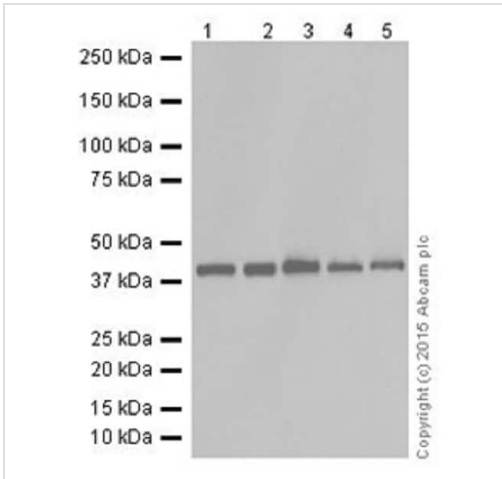


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling KAT1 / HAT1 with ab193097 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on human tonsil is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

All lanes : Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097) at 1/2000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 3 : F9 (Mouse embryonic carcinoma cell line) whole cell lysate

Lane 4 : LLC (Mouse lung carcinoma) whole cell lysate

Lane 5 : Mouse thymus lysate

Lysates/proteins at 20 µg per lane.

Secondary

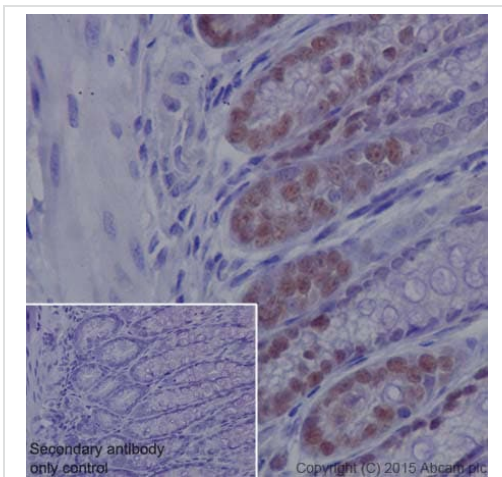
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 45 kDa

Exposure time: 8 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

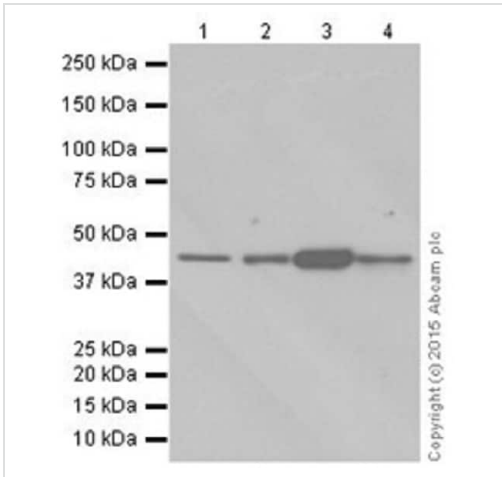


Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling KAT1 / HAT1 with ab193097 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on mouse colon is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)



Western blot - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

All lanes : Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097) at 1/2000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : Human fetal heart lysate

Lane 3 : Human fetal kidney lysate

Lane 4 : Human fetal spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

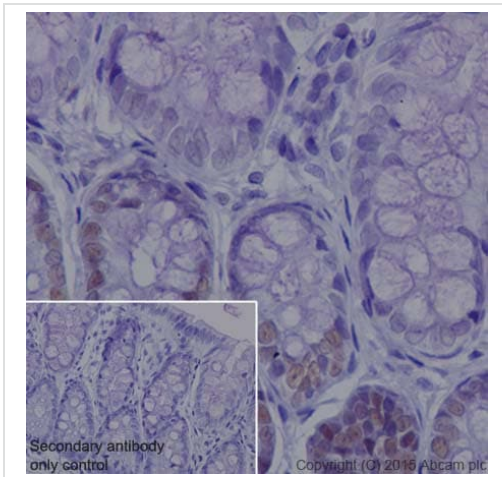
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 49 kDa

Observed band size: 45 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFD/MTBST.

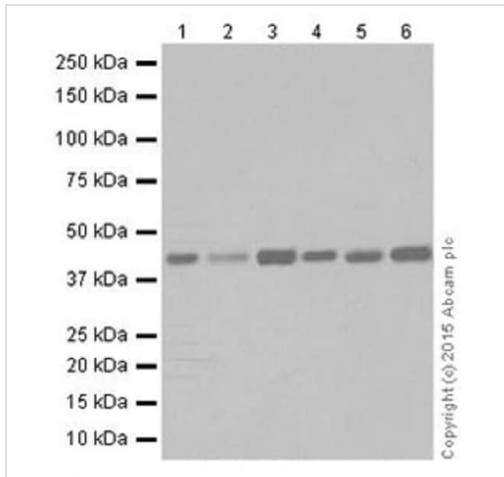


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling KAT1 / HAT1 with ab193097 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining on rat colon is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-KAT1 / HAT1 antibody
[EPR18661] (ab193097)

All lanes : Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097)

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Rat brain lysate

Lane 5 : Rat heart lysate

Lane 6 : Rat kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

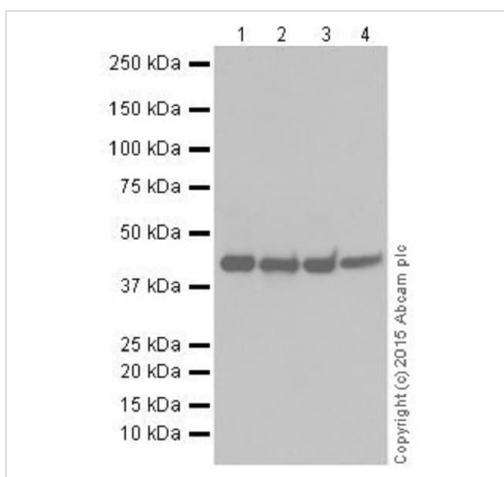
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 45 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-KAT1 / HAT1 antibody
[EPR18661] (ab193097)

All lanes : Anti-KAT1 / HAT1 antibody [EPR18661] (ab193097) at 1/2000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 4 : NIH/3T3 (Mouse embryonic fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

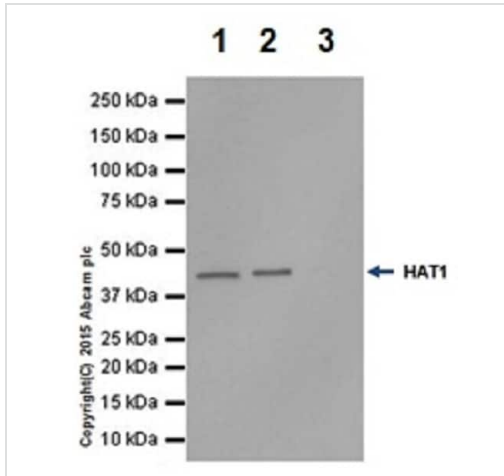
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 45 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-KAT1 / HAT1 antibody
[EPR18661] (ab193097)

KAT1 / HAT1 was immunoprecipitated from 1mg of F9 (Mouse embryonic carcinoma cell line) whole cell lysate with ab193097 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab193097 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

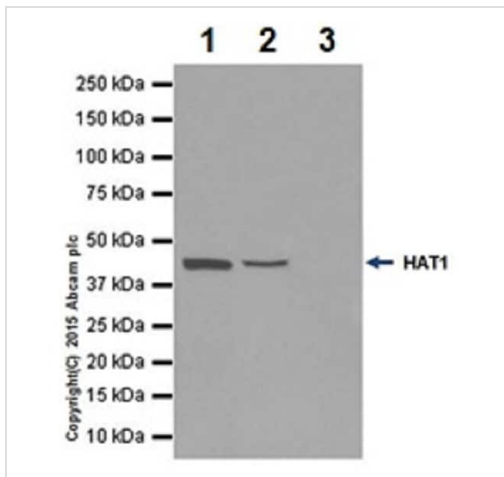
Lane 1: F9 whole cell lysate 10ug (Input).

Lane 2: ab193097 IP in F9 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab193097 in F9 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 second.



Immunoprecipitation - Anti-KAT1 / HAT1 antibody
[EPR18661] (ab193097)

KAT1 / HAT1 was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab193097 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab193097 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: HeLa whole cell lysate 10ug (Input).

Lane 2: ab193097 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab193097 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 seconds.

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-KAT1 / HAT1 antibody [EPR18661] (ab193097)

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