


Anti-IDH1 antibody [EPR12296] ab172964

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-IDH1抗体[EPR12296]
描述	兔单克隆抗体[EPR12296] to IDH1
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	适用于: WB, IHC-P, IP
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Sheep, Cow, Orangutan 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HAP1, HepG2, and HeLa cell lysates. IHC-P: Human gastric cancer tissue IP: HepG2 whole cell lysate WB: Raji, HepG2 and Neuro-2a whole cell lysates. Rat kidney lysate.
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: 7.20</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	EPR12296
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab172964于以下的经测试应用

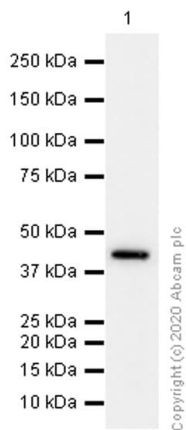
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 47 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
IP		1/10 - 1/100.

靶标

疾病相关	<p>Glioma</p> <p>Genetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma. Mutations of Arg-132 to Cys, Gly or His abolish the conversion of isocitrate to alpha-ketoglutarate. Instead, alpha-ketoglutarate is converted to R(-)-2-hydroxyglutarate.</p>
序列相似性	<p>Belongs to the isocitrate and isopropylmalate dehydrogenases family.</p>
翻译后修饰	<p>Acetylation at Lys-374 dramatically reduces catalytic activity.</p>
细胞定位	<p>Cytoplasm. Peroxisome.</p>

图片



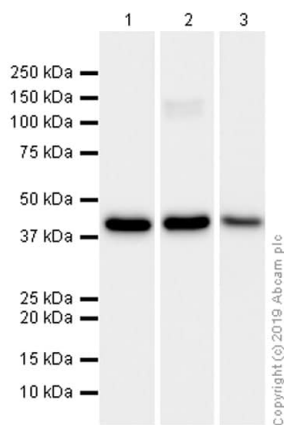
Western blot - Anti-IDH1 antibody [EPR12296]
(ab172964)

Anti-IDH1 antibody [EPR12296] (ab172964) at 1/1000 dilution
(Purified) + Raji (Human Burkitt's lymphoma B lymphocyte) whole
cell lysate

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 47 kDa



Western blot - Anti-IDH1 antibody [EPR12296]
(ab172964)

All lanes : Anti-IDH1 antibody [EPR12296] (ab172964) at 1/1000
dilution (Purified)

Lane 1 : HepG2 (Human hepatocellular carcinoma epithelial cell)
whole cell lysate

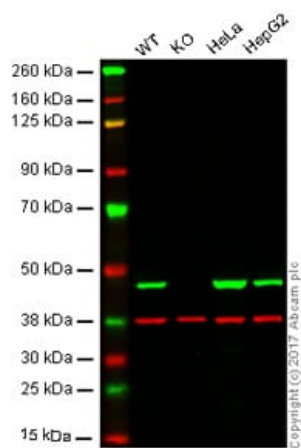
Lane 2 : Rat kidney lysate

Lane 3 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell
lysate

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity
with human IgG at 1/2000 dilution

Predicted band size: 47 kDa



Western blot - Anti-IDH1 antibody [EPR12296]
(ab172964)

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

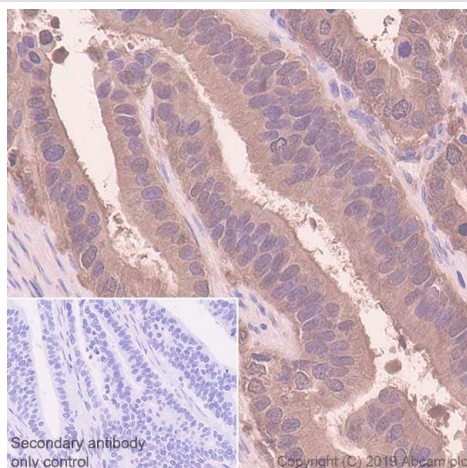
Lane 2: IDH1 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: HepG2 whole cell lysate (20 µg)

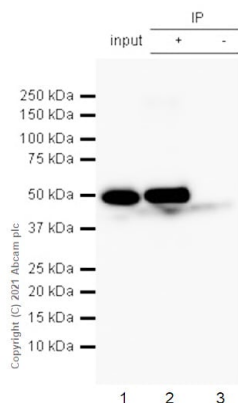
Lanes 1 - 4: Merged signal (red and green). Green - ab172964 observed at 46 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab172964 was shown to specifically react with IDH1 in wild-type HAP1 cells. No band was observed when IDH1 knockout samples were used. Wild-type and IDH1 knockout samples were subjected to SDS-PAGE. ab172964 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10,000 dilution respectively. Blots were developed 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 1/10,000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IDH1 antibody [EPR12296] (ab172964)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human gastric cancer tissue sections labeling IDH1 with purified ab172964 at 1/200 dilution (0.60 µg/mL). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunoprecipitation - Anti-IDH1 antibody
[EPR12296] (ab172964)

Purified ab172964 at 1/20 dilution (0.6µg) immunoprecipitating IDH1 in HepG2 whole cell lysate.

Lane 1 (input): HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate.

Lane 2 (+): ab172964 + HepG2 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab172964 in HepG2 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

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-IDH1 antibody [EPR12296] (ab172964)

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

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