


Anti-IDH2 antibody [EPR7576] ab129180

敲除验证
重组
RabMAb

★★★★☆
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概述

产品名称	Anti-IDH2抗体[EPR7576]
描述	兔单克隆抗体[EPR7576] to IDH2
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P 不适用于: ICC/IF or IP
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide within Human IDH2 aa 50-150. The exact sequence is proprietary.
阳性对照	Human thyroid gland carcinoma tissue; Molt-4, K562, 293T and HepG2 whole cell lysate (ab7900).
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 -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Tissue culture supernatant
克隆	单克隆

克隆编号EPR7576

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab129180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
Flow Cyt (Intra)		1/1000 - 1/10000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (3)	1/1000 - 1/10000. Detects a band of approximately 45 kDa (predicted molecular weight: 51 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

应用说明

Is unsuitable for ICC/IF or IP.

靶标

功能

Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.

疾病相关

D-2-hydroxyglutaric aciduria 2
Glioma
enetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma.

序列相似性

Belongs to the isocitrate and isopropylmalate dehydrogenases family.

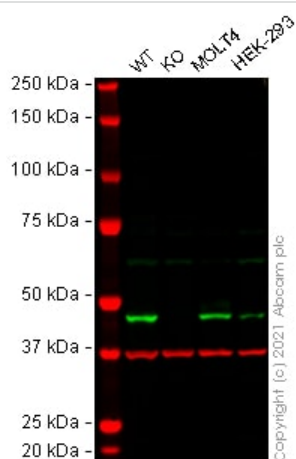
翻译后修饰

Acetylation at Lys-413 dramatically reduces catalytic activity. Deacetylated by SIRT3.

细胞定位

Mitochondrion.

图片



Western blot - Anti-IDH2 antibody [EPR7576]
(ab129180)

All lanes : Anti-IDH2 antibody [EPR7576] (ab129180) at 1/1000 dilution

Lane 1 : Wild-type Jurkat cell lysate

Lane 2 : IDH2 knockout Jurkat cell lysate

Lane 3 : MOLT-4 cell lysate

Lane 4 : HEK-293 cell lysate

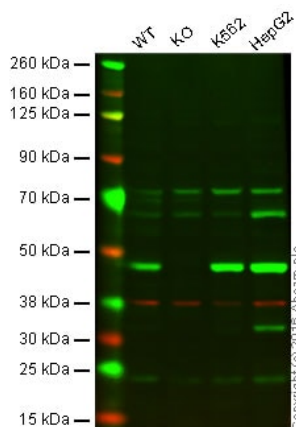
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 51 kDa

Observed band size: 48 kDa

False colour image of Western blot: Anti-IDH2 antibody [EPR7576] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab129180 was shown to bind specifically to IDH2. A band was observed at 48 kDa in wild-type Jurkat cell lysates with no signal observed at this size in IDH2 knockout cell line [ab282331](#) (knockout cell lysate [ab283148](#)). To generate this image, wild-type and IDH2 knockout Jurkat cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-IDH2 antibody [EPR7576]
(ab129180)

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

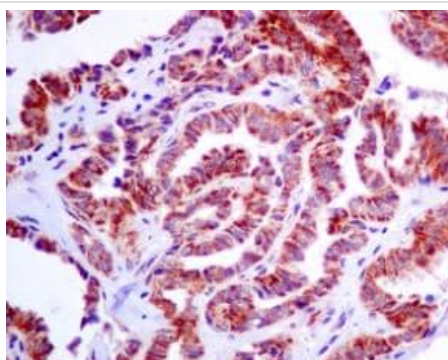
Lane 2: IDH2 knockout HAP1 cell lysate (20 µg)

Lane 3: K562 cell lysate (20 µg)

Lane 4: HepG2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab129180 observed at 47 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

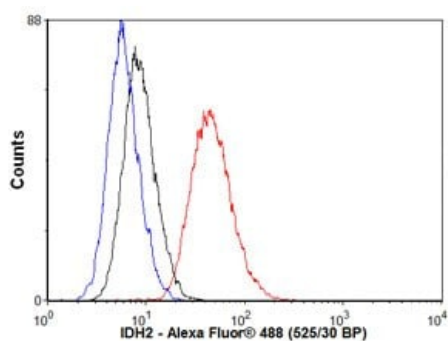
ab129180 was shown to recognize IDH2 when IDH2 knockout samples were used, along with additional cross-reactive bands. Wild-type and IDH2 knockout samples were subjected to SDS-PAGE. ab129180 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight 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 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IDH2 antibody [EPR7576]
(ab129180)

ab129180, at 1/250 dilution, staining IDH2 in Formalin-fixed, Paraffin-embedded Human thyroid gland carcinoma by Immunohistochemistry.

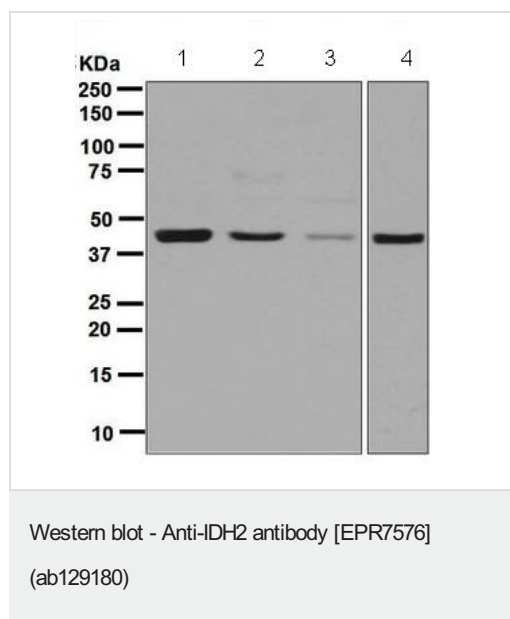
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-IDH2 antibody [EPR7576] (ab129180)

Overlay histogram showing MCF7 cells stained with ab129180 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab129180, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and

525/30 bandpass filter. This antibody gave a positive signal in MCF7 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



All lanes : Anti-IDH2 antibody [EPR7576] (ab129180) at 1/1000 dilution

Lane 1 : Molt-4 cell lysate

Lane 2 : K562 cell lysate

Lane 3 : 293T cell lysate

Lane 4 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-rabbit HRP

Predicted band size: 51 kDa

Observed band size: 45 kDa

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-IDH2 antibody [EPR7576] (ab129180)

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

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