

# Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] ab133630

敲除验证
重组
RabMAb

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[1 Abreviews](#)
[2 References](#)
[5 图像](#)

### 概述

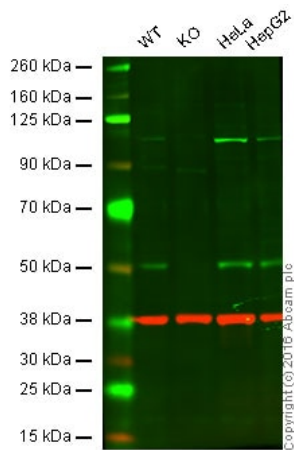
<b>产品名称</b>	Anti-PHD2 / prolyl hydroxylase抗体[EPR3660(B)(2)]
<b>描述</b>	兔单克隆抗体[EPR3660(B)(2)] to PHD2 / prolyl hydroxylase
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IP <b>不适用于:</b> ICC/IF or IHC-P
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide within Human PHD2/ prolyl hydroxylase (N terminal). The exact sequence is proprietary.
<b>阳性对照</b>	SH-SY5Y treated with cobalt chloride, SH-SY5Y, and Human adrenal gland lysates
<b>常规说明</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	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.
<b>解离常数 (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.43 x 10 <sup>-11</sup> M







Western blot - Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] (ab133630)

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

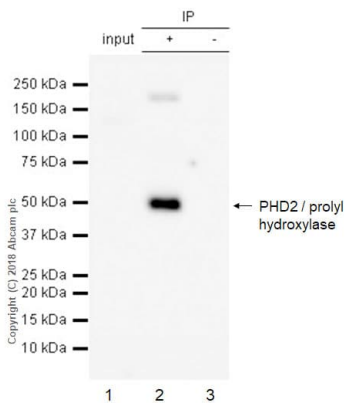
**Lane 2:** PHD2 / prolyl hydroxylase knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** HepG2 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab133630 observed at 133 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

Unpurified ab133630 was shown to specifically react with PHD2 / prolyl hydroxylase when PHD2 / prolyl hydroxylase knockout samples were used. Wild-type and PHD2 / prolyl hydroxylase knockout samples were subjected to SDS-PAGE. Unpurified ab133630 and **ab8245** (loading control to GAPDH) were diluted 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 1/10 000 dilution for 1 h at room temperature before imaging.



Immunoprecipitation - Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] (ab133630)

ab133630 (purified) at 1:40 dilution (2µg) immunoprecipitating PHD2 / prolyl hydroxylase in SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate.

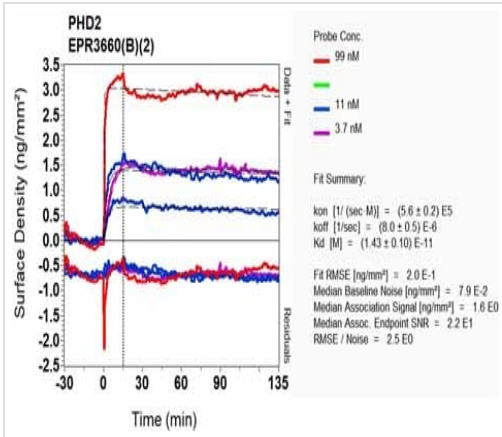
**Lane 1 (input):** SH-SY5Y (Human neuroblastoma epithelial cell) treated with 0.1mM cobalt chloride for 8 hours whole cell lysate 10µg

**Lane 2 (+):** ab133630 & SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of ab133630 in SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.

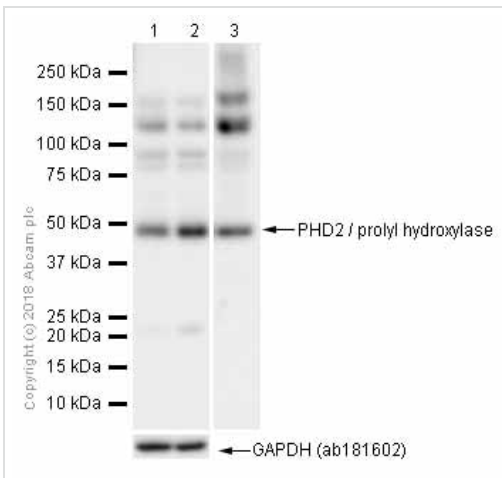


SPR Scanning - Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] (ab133630)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)



Western blot - Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] (ab133630)

**All lanes :** Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] (ab133630) at 1/5000 dilution (Purified)

**Lane 1 :** SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 2 :** SH-SY5Y (Human neuroblastoma epithelial cell) treated with 0.1mM cobalt chloride for 8 hours whole cell lysates with 5% NFDN/TBST

**Lane 3 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

Lysates/proteins at 20  $\mu$ g per lane.

### Secondary

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

**Predicted band size:** 46 kDa

**Observed band size:** 46 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-PHD2 / prolyl hydroxylase antibody

[EPR3660(B)(2)] (ab133630)

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

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