

### Anti-PHD1/prolyl hydroxylase antibody [EPR2746] ab113077

**重组** RabMAb

★★★★★ **2 Abreviews** **5 References** **10 图像**

#### 概述

产品名称	Anti-PHD1/prolyl hydroxylase抗体[EPR2746]
描述	兔单克隆抗体[EPR2746] to PHD1/prolyl hydroxylase
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549, HeLa and MCF-7 cell lysates, Human fetal heart, Mouse brain, Mouse heart, Rat brain, Rat heart tissue lysates IHC-P: Mouse testis, Rat spleen, Human breast carcinoma and Human lung carcinoma tissue ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells.
常规说明	<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>

#### 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	<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	EPR2746
同种型	IgG

应用

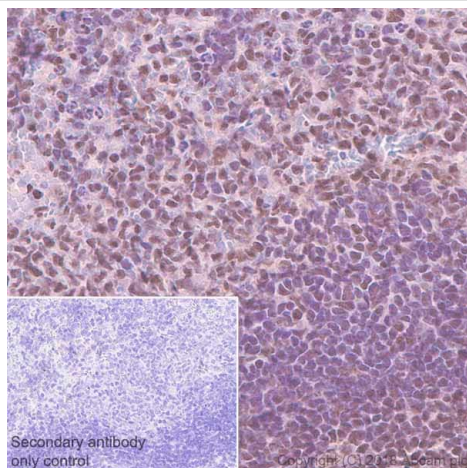
**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab113077于以下的经测试应用  
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/30.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols.</u></b> <b>For unpurified use at 1/100 - 1/250.</b>
ICC/IF		1/50 - 1/100.

靶标

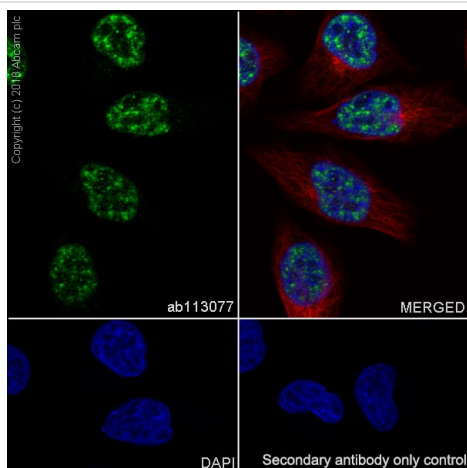
功能	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. Functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. May play a role in cell growth regulation. Isoform p40 and isoform p43 exhibit the same level of activity.
组织特异性	Expressed abundantly in all tissues with highest expression in testis. Expressed in hormone responsive tissues, including normal and cancerous mammary, ovarian and prostate epithelium.
序列相似性	Contains 1 Fe2OG dioxygenase domain.
细胞定位	Cytoplasm. Nucleus.

图片



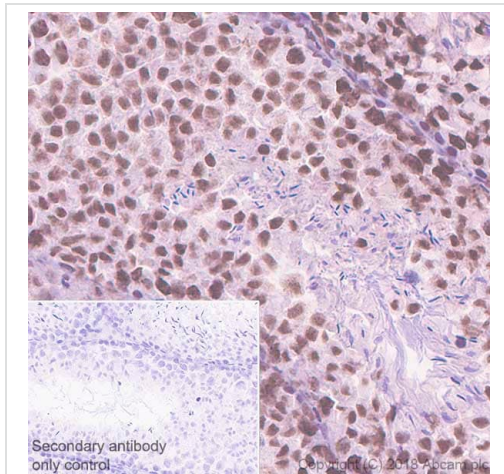
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat spleen tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



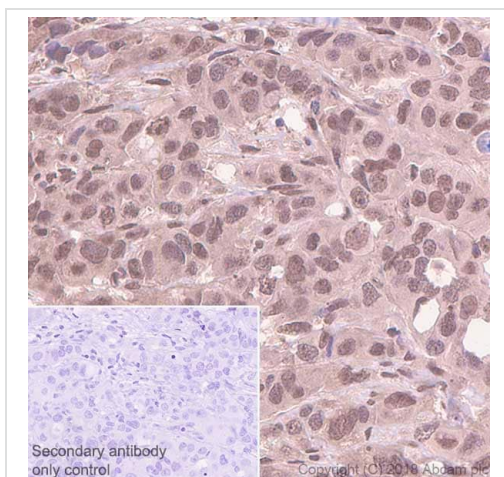
Immunocytochemistry/ Immunofluorescence - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling PHD1/prolyl hydroxylase with purified ab113077 at 1/50 dilution (5 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL) was used as the secondary antibody only control.



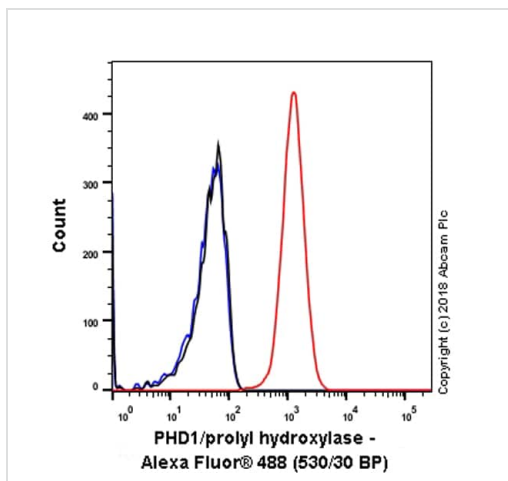
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse testis tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14  $\mu\text{g/ml}$ ). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



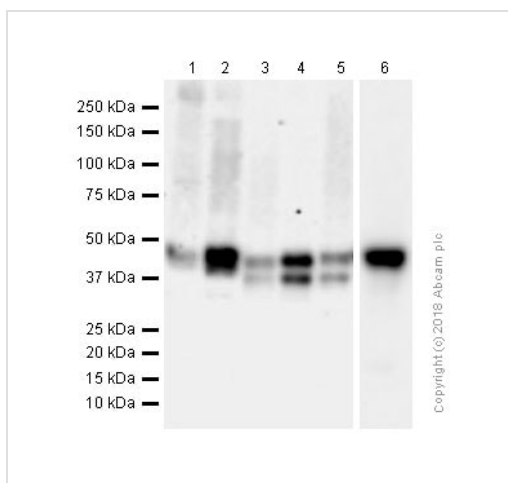
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast cancer tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14  $\mu\text{g/ml}$ ). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1/30 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

**All lanes** : Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077) at 1/1000 dilution (Purified)

**Lane 1** : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

**Lane 2** : Human fetal heart lysates

**Lane 3** : Mouse brain lysates

**Lane 4** : Mouse heart lysates

**Lane 5** : Rat brain lysates

**Lane 6** : Rat heart lysates

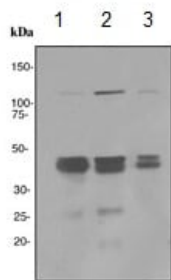
Lysates/proteins at 20 µg per lane.

### Secondary

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

**Predicted band size:** 44 kDa

**Observed band size:** 40,43 kDa



Western blot - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

**All lanes :** Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077) at 1/1000 dilution

**Lane 1 :** A549 cell lysates

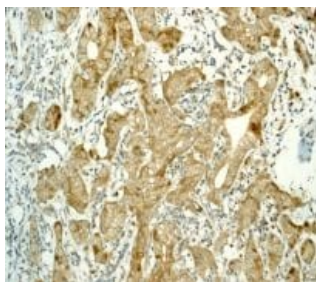
**Lane 2 :** HeLa cell lysates

**Lane 3 :** MCF-7 cell lysates

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 44 kDa

**This image was generated using the unpurified version of the product.**

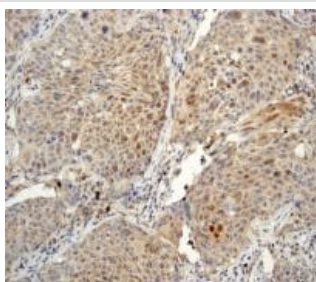


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

ab113077, at a 1/100 dilution, staining PHD1/prolyl hydroxylase in paraffin-embedded Human breast carcinoma tissue by Immunohistochemistry.

**This image was generated using the unpurified version of the product.**

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

ab113077, at a 1/100 dilution, staining PHD1/prolyl hydroxylase in paraffin-embedded Human lung carcinoma tissue by Immunohistochemistry.

**This image was generated using the unpurified version of the product.**

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

### 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-PHD1/prolyl hydroxylase antibody [EPR2746]  
(ab113077)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors