

### Anti-HIF-2-alpha antibody ab199

★★★★★ [11 Abreviews](#) [133 References](#) [3 图像](#)

#### 概述

产品名称	Anti-HIF-2-alpha抗体
描述	兔多克隆抗体to HIF-2-alpha
宿主	Rabbit
特异性	Specific for HIF-2-alpha / EPAS 1. Does not cross react with HIF-1-alpha.
经测试应用	<b>适用于:</b> IHC-P, WB
种属反应性	<b>与反应:</b> Human, African green monkey
免疫原	Synthetic peptide corresponding to Mouse HIF-2-alpha aa 632-646. Sequence: GRSNTQWPPDPPLHF <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
阳性对照	WB: Hypoxic HeLa lysate; COS7 nuclear extracts IHC: Human cardiac myocytes
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.05% Sodium azide Constituent: 99% PBS
纯度	Affinity purified
克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab199于以下的经测试应用

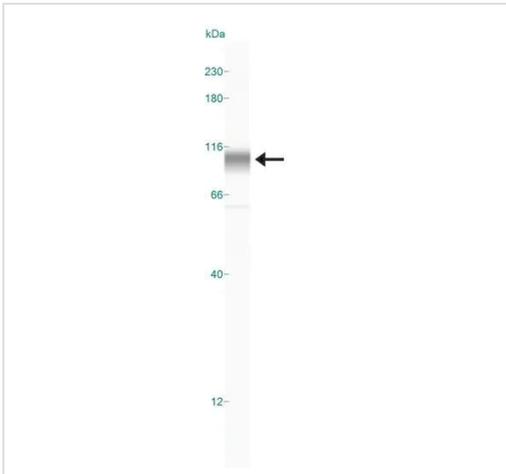
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (1)	1/100.
WB	★★★★★ (9)	1/200 - 1/1000. Detects a band of approximately 118 kDa (predicted molecular weight: 100 kDa). The following should be taken into consideration: sufficient hypoxia induction is necessary; use nuclear extracts for cleaner results; use positive/negative controls to see which band is up-regulated; HIF2a degrades rapidly (fast sample preparation, protease inhibitors!).

## 靶标

<b>功能</b>	Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation seems to require recruitment of transcriptional coactivators such as CREBPB and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD.
<b>组织特异性</b>	Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells.
<b>疾病相关</b>	Defects in EPAS1 are the cause of erythrocytosis familial type 4 (ECYT4) [MIM:611783]. ECYT4 is an autosomal dominant disorder characterized by increased serum red blood cell mass, elevated hemoglobin concentration and hematocrit, and normal platelet and leukocyte counts.
<b>序列相似性</b>	Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
<b>翻译后修饰</b>	In normoxia, is probably hydroxylated on Pro-405 and Pro-531 by EGLN1/PHD1, EGLN2/PHD2 and/or EGLN3/PHD3. The hydroxylated prolines promote interaction with VHL, initiating rapid ubiquitination and subsequent proteasomal degradation. Under hypoxia, proline hydroxylation is impaired and ubiquitination is attenuated, resulting in stabilization. In normoxia, is hydroxylated on Asn-847 by HIF1AN thus probably abrogating interaction with CREBBP and EP300 and preventing transcriptional activation. Phosphorylated on multiple sites in the CTAD. The iron and 2-oxoglutarate dependent 3-hydroxylation of asparagine is (S) stereospecific within HIF CTAD domains.
<b>细胞定位</b>	Nucleus.

## 图片



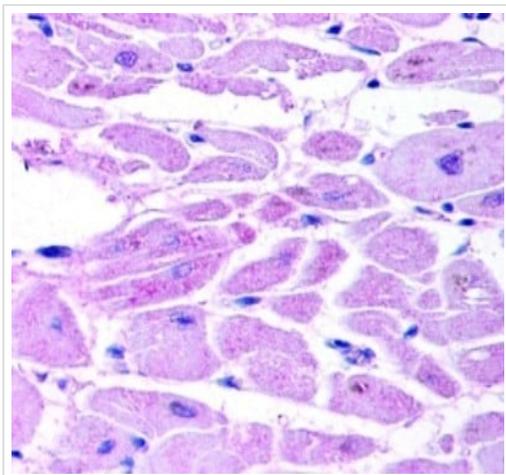
Western blot - Anti-HIF-2-alpha antibody (ab199)

Anti-HIF-2-alpha antibody (ab199) + Hypoxic HeLa cell lysate at 0.5 mg/ml

Performed under reducing conditions.

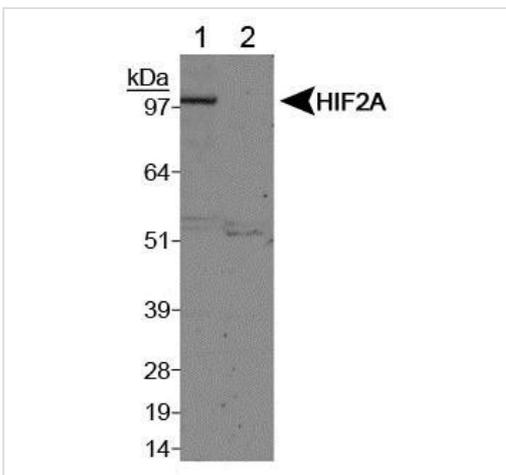
**Predicted band size:** 100 kDa

Detection of HIF-2-alpha in hypoxic HeLa lysate using ab199, reducing conditions using the 12-230 kDa separation system.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HIF-2-alpha antibody (ab199)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac myocytes labeling HIF-2-alpha with ab199 at 1/100 dilution.



Western blot - Anti-HIF-2-alpha antibody (ab199)

**All lanes :** Anti-HIF-2-alpha antibody (ab199)

**Lane 1 :** Cobalt chloride treated COS7 nuclear extracts

**Lane 2 :** Untreated COS7 nuclear extracts

**Predicted band size:** 100 kDa

## **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