abcam

Product datasheet

# Anti-HIF-2-alpha antibody [ep190b] ab8365

5 Abreviews 71 References 画像数 2

## 製品の概要

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|---|---|
| **製品名** | Anti-HIF-2-alpha antibody [ep190b] |
| **製品の詳細** | Mouse monoclonal [ep190b] to HIF-2-alpha |
| **由来種** | Mouse |
| **アプリケーション** | **適用あり:** WB |
| **種交差性** | **交差種:** Human<br>**交差が予測される動物種:** Rat |
| **免疫原** | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| **ポジティブ・コントロール** | WB: Hypoxic A549 and HeLa cell lysate. |
| **特記事項** | This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**.<br>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.<br>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&As |

## 製品の特性

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| **製品の状態** | Liquid |
| **保存方法** | 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. |
| **バッファー** | Preservative: 0.02% Sodium azide<br>Constituent: PBS |
| **精製度** | Protein G purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | ep190b |
| **ミエローマ** | NS1 |

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|---|---|
| **アイソタイプ** | IgG1 |
| **軽鎖の種類** | kappa |

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab8365の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **WB** | ★★★★☆ (3) | Use a concentration of 1 µg/ml. Predicted molecular weight: 100 kDa.<br>Abcam recommends using a 3% milk block with this product. |

## ターゲット情報

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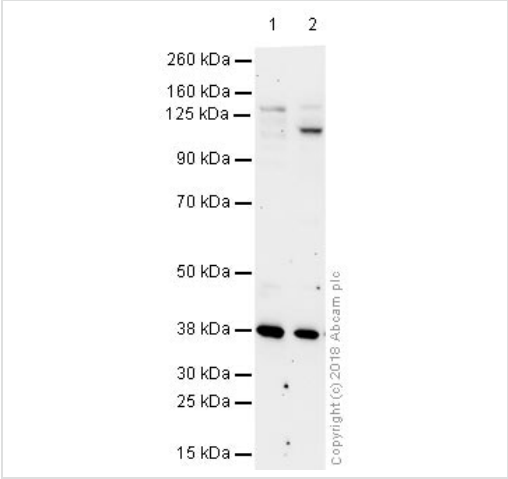
|---|---|
| **機能** | Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in 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. |
| **組織特異性** | Expressed in most tissues, with highest levels in placenta, lung and heart. Selectively expressed in endothelial cells. |
| **関連疾患** | 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. |
| **配列類似性** | Contains 1 basic helix-loop-helix (bHLH) domain.<br>Contains 1 PAC (PAS-associated C-terminal) domain.<br>Contains 2 PAS (PER-ARNT-SIM) domains. |
| **翻訳後修飾** | 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.<br>In normoxia, is hydroxylated on Asn-847 by HIF1AN thus probably abrogating interaction with CREBBP and EP300 and preventing transcriptional activation.<br>Phosphorylated on multiple sites in the CTAD.<br>The iron and 2-oxoglutarate dependent 3-hydroxylation of asparagine is (S) stereospecific within HIF CTAD domains. |
| **細胞内局在** | Nucleus. |

## 画像




Western blot - Anti-HIF-2-alpha antibody [ep190b] (ab8365)

**All lanes :** Anti-HIF-2-alpha antibody [ep190b] (ab8365) at 1/500 dilution

**Lane 1 :** HeLa whole cell lysate
**Lane 2 :** HeLa treated with 0.5mM DFO whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** HRP conjugated Goat Anti-Mouse IgG (H+L) at 1/10000 dilution

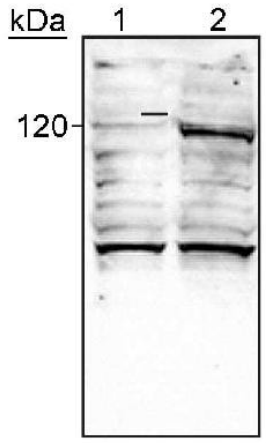
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 100 kDa
**Observed band size:** 100 kDa

**Exposure time:** 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 55 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab8365 overnight at 4°C. Antibody binding was detected using a Goat anti-mouse antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.




Western blot - Anti-HIF-2-alpha antibody [ep190b] (ab8365)

HIF-2-alpha detected in hypoxic Human lysate using ab8365. Lane 1: normoxic A549 lysate control, lane 2: hypoxic A549 lysate.



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