

Anti-HIF-2-alpha antibody [BL-95-1A2] ab243861

リコンビナント

5 References 画像数 7

製品の概要

製品名	Anti-HIF-2-alpha antibody [BL-95-1A2]
製品の詳細	Rabbit monoclonal [BL-95-1A2] to HIF-2-alpha
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, IP, ChIP-sequencing, ICC, IHC-P, WB
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide within Human HIF-2-alpha aa 400-450. The exact sequence is proprietary. NP_001421.2 and Gene ID 2034. Database link: <a href="#">Q99814</a>
特記事項	This product is sold under License from Bethyl Laboratories, Inc.

製品の特性

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	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
特記事項(精製)	Recombinant antibody was purified from cell culture supernatant.
ポリ/モノ	モノクローナル
クローン名	BL-95-1A2
アイソタイプ	IgG

アプリケーション

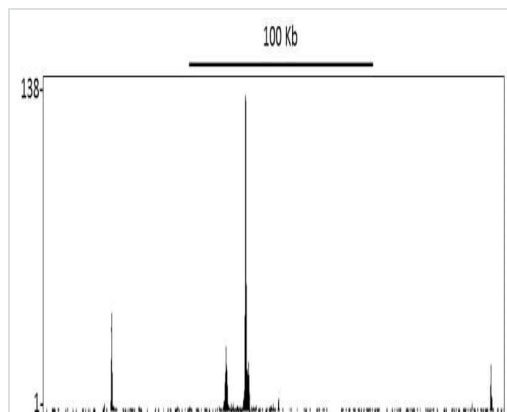
The Abpromise guarantee      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab243861の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/100 - 1/500. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells.
IP		Use at an assay dependent concentration. Use 5-20µl/mg lysate.
ChIP-sequencing		Use a concentration of 10-40 - 30 µl/chromatin.
ICC		1/200 - 1/1000. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells.
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. Antigen retrieval with citrate buffer pH 6.0 for 20 minutes using a pressure cooker and overnight incubations are recommended.
WB		1/1000.

## ターゲット情報

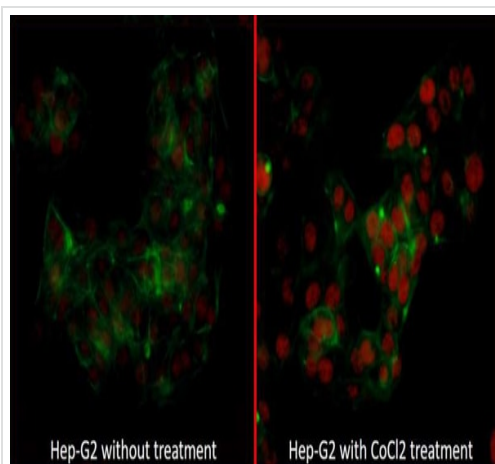
機能	Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of 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. Contains 1 PAC (PAS-associated C-terminal) domain. 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. 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.

## 画像



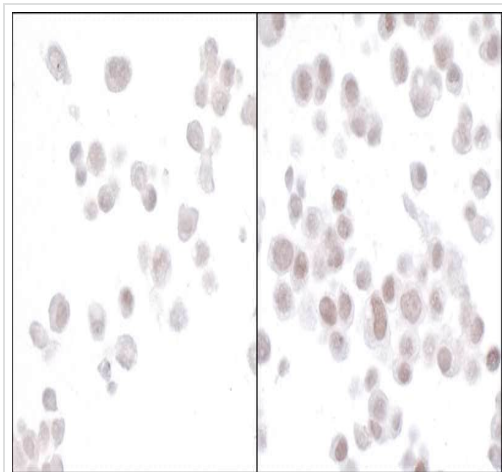
ChIP-sequencing - Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

Chromatin from subcutaneous human tumor 786-O cells was immunoprecipitated with anti-HIF-2-alpha antibody ab243861 and analyzed by DNA sequencing. The figure illustrates the peak distribution of HIF-2-alpha binding within a 250 Kb region of chromosome 11 as detected using anti-HIF-2-alpha antibody ab243861. ChIP-seq validation performed by Active Motif, Carlsbad, CA.



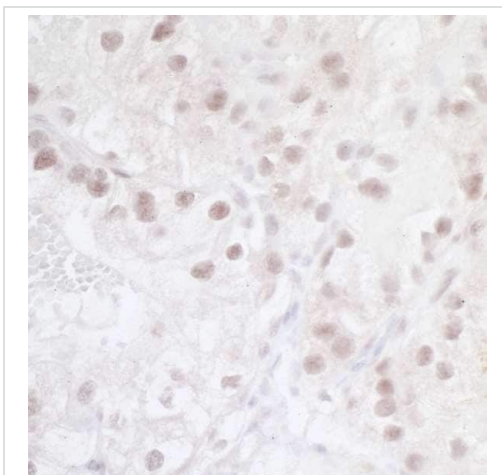
Immunocytochemistry/ Immunofluorescence - Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

Formaldehyde-fixed HepG2 (human liver hepatocellular carcinoma cell line) cells untreated (Left) and treated with CoCl<sub>2</sub> (right), labeling HIF-2 alpha (Red) using ab243861 at 1/100 dilution. DyLight® 594-conjugated goat anti-rabbit IgG was used as the secondary antibody at 1/100 dilution. Phalloidin Alexa Fluor® 488 conjugated (green) was used as the counterstain.



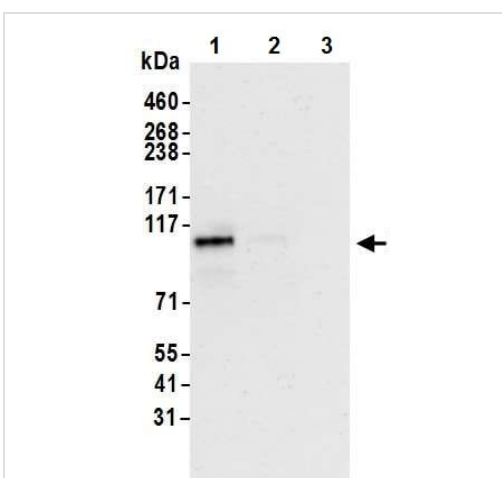
Immunocytochemistry - Anti-HIF-2-alpha antibody  
[BL-95-1A2] (ab243861)

Formalin-fixed, paraffin-embedded HepG2 (human liver hepatocellular carcinoma cell line) cells labeling HIF-2 alpha using ab243861 at 1/400 dilution in ICC/IF analysis. A HRP-conjugated goat-anti-rabbit IgG was used as the secondary. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

Formalin-fixed, paraffin-embedded human renal cell carcinoma tissue stained for HIF-2 alpha using ab243861 at 1/400 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.



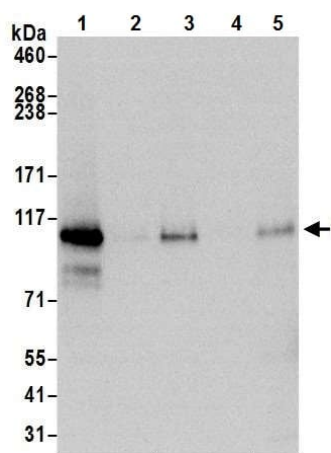
Immunoprecipitation - Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

HIF-2 alpha was immunoprecipitated from 1 mg HepG2 whole cell lysate with ab243861 at 20  $\mu$ L per reaction. Western blot was performed on the immunoprecipitate using ab243861 at 1/1000 dilution.

Lane 1: ab243861 IP in HepG2 cell lysate treated with 200  $\mu$ M CoCl<sub>2</sub>.

Lane 2: ab243861 IP in HepG2 whole cell lysate Mock treated.

Lane 3: Control IgG in HepG2 cell lysate treated with 200  $\mu$ M CoCl<sub>2</sub>.



Western blot - Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

**All lanes :** Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861) at 1/1000 dilution

**Lane 1 :** HepG2 whole cell lysate treated with 200uM CoCl<sub>2</sub>

**Lane 2 :** HepG2 whole cell lysate mock treated

**Lane 3 :** HEK293T whole cell lysate treated with 200uM CoCl<sub>2</sub>

**Lane 4 :** HEK293T whole cell lysate mock treated

**Lane 5 :** 786-O whole cell lysate mock treated

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit IgG

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Anti-HIF-2-alpha antibody [BL-95-1A2] (ab243861)

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