

HIF-2 alpha Polyclonal Antibody

Product Details

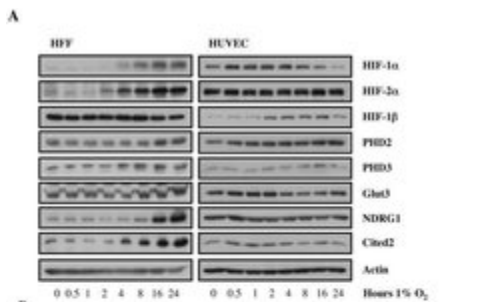
Size	100 µL
Species Reactivity	Fish, Hamster, Human, Mouse, Non-human primate, Sheep, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A peptide derived from the C-terminus of mouse/human HIF-2 alpha protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2098236

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	10 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:100	-
Immunocytochemistry (ICC/IF)	1:100	-
Flow Cytometry (Flow)	Assay-Dependent	-
ELISA (ELISA)	1:100-1:2,000	-
Immunoprecipitation (IP)	5 µg/1 mg lysate	-
ChIP assay (ChIP)	1:10-1:500	-
Gel Shift (GS)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

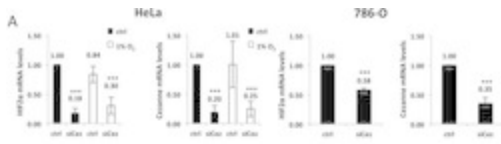
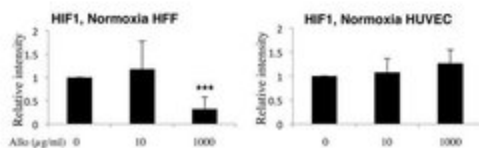
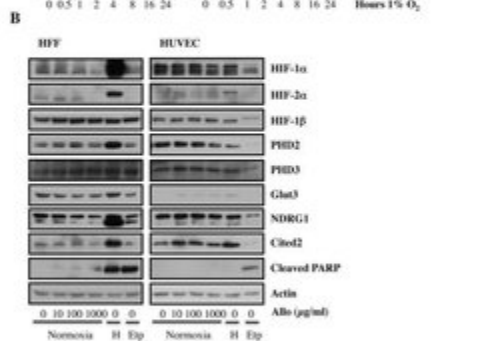
Suggested positive control: Cos7 CoCl₂-treated nuclear extract, PC12 nuclear extracts.

Advanced Verification Data



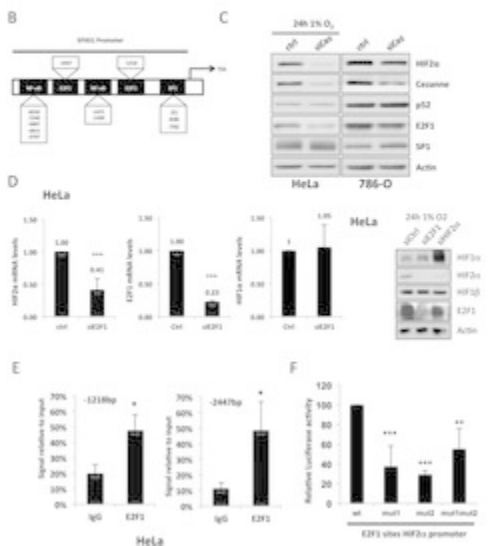
HIF-2 alpha Antibody (PA1-16510)

Fig 1 Increasing doses of Allopurinol reduce HIF-1alpha levels in normoxic HFFs and HUVEC cells. A. Characterisation of HFF and HUVEC response to hypoxia. Cells were exposed to hypoxia (1% oxygen) for the indicated periods of time. At the end of incubation, protein levels were determined in whole cell extracts by immunoblot analysis using the depicted antibodies. B. Cells were treated with Allopurinol at 10, 100 and 1000 mug/ml for 17 hours. Then the cells were lysed for assessment of the indicated protein levels. Cells were treated with Etoposide (Etop) for 24 hours under normoxia. H-cells exposed to 1% O₂ for 16 hours. HIF-1alpha levels were quantified using ImageJ software and graph depicts mean and standard deviation of a minimum of three independent experiments. Anova t-test was performed and p values calculated as follows: *p<0.05; **p<0.01; ***p<0.001. Cell treatment validation info.



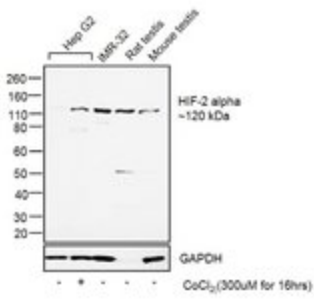
HIF-2 alpha Antibody (PA1-16510)

Cezanne and E2F1 modulate HIF2 expression. (A) HeLa and 786-O cells were transfected with control (ctrl) or Cezanne-targeting siRNAs (siCez), and whole cell lysates were prepared 48 h post-transfection, and total RNA was extracted. RT-qPCR was performed in order to analyse the mRNA levels of HIF2 and Cezanne using actin as a normalising gene (P-values are significant according to the Student's t-test; ***P<0.001). The fold-changes relative to the control are shown above the bars. (B) Schematic diagram depicting the results of the bioinformatic analysis of potential transcription factor binding sites (indicated) in the HIF2 gene promoter region. Base pairs locations are shown relative to the transcription start site (TSS). (C) 786-O cells under basal conditions and HeLa cells exposed for 24 h to 1% O₂ were transfected with control or Cezanne-targeting siRNAs, and whole cell lysates were prepared 48 h post-transfection and analysed by western blotting with the antibodies indicated. (D) HeLa cells were transfected with control or E2F1-targeting siRNAs, and 48 h post-transfection, total RNA and protein extracts were prepared. RT-qPCR analysis of HIF2, HIF1 and E2F1 mRNA was performed using actin as a normalising gene (P-values are significant according to the Student's t-test; ***P<0.001). Protein levels of HIF2, HIF1, HIF1 and E2F1 under the same conditions were also analysed by western blotting. The blot on the right is representative of this analysis. (E) ChIP analyses Knockdown validation info.



HIF-2 alpha Antibody (PA1-16510)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using HIF2A Polyclonal Antibody (Product # PA1-16510), shows increased expression of HIF2A in Hep G2 upon Cobalt Chloride treatment. Cell treatment validation info.



[View more figures on thermofisher.com](https://www.thermofisher.com)

15 References

Western Blot (10)

Frontiers in immunology

Myeloid Cell Hypoxia-Inducible Factors Promote Resolution of Inflammation in Experimental Colitis.

"Published figure using HIF-2 alpha polyclonal antibody (Product # PA1-16510) in Western Blot"

Authors: Lin N, Shay JES, Xie H, Lee DSM, Skuli N, Tang Q, Zhou Z, Azzam A, Meng H, Wang H, FitzGerald GA, Simon MC

Species
Not Applicable

Dilution
Not Cited

Year
2019

The Biochemical journal

SINHCAF/FAM60A and SIN3A specifically repress HIF-2 expression.

"Published figure using HIF-2 alpha polyclonal antibody (Product # PA1-16510) in Western Blot"

Authors: Biddlestone J, Batie M, Bandarra D, Munoz I, Rocha S

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more WB references on thermofisher.com](#)

Immunohistochemistry (2)

World journal of clinical oncology

Evaluation of a locked nucleic acid form of antisense oligo targeting HIF-1 in advanced hepatocellular carcinoma.

"PA1-16510 was used in Immunohistochemistry to indicate that RO7070179 might benefit HCC patients, and an early signal for clinical benefit can potentially be predicted through changes in either mRNA level or DCE-MRI within 1 cycle of therapy."

Authors: Wu J, Contratto M, Shanbhogue KP, Manji GA, O'Neil BH, Noonan A, Tudor R, Lee R

Species
Mouse

Dilution
Not Cited

Year
2019

Nature communications

Epigenetic re-expression of HIF-2 suppresses soft tissue sarcoma growth.

"PA1-16510 was used in immunohistochemistry to analyze the suppression of soft tissue sarcoma growth due to epigenetic re-expression of HIF-2 alpha"

Authors: Nakazawa MS, Eisinger-Mathason TS, Sadri N, Ochocki JD, Gade TP, Amin RK, Simon MC

Species
Human

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

IHC (P) (2)

Misc (1)

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