



Datasheet for ABIN672546  
**anti-HIF1A antibody (AA 341-450)**



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10 Publications

## Overview

Quantity:	100 µL
Target:	HIF1A
Binding Specificity:	AA 341-450
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIF1A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human of human HIF-1 Alpha
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Pig
Purification:	Purified by Protein A.

## Target Details

Target:	HIF1A
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## Target Details

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Alternative Name: [HIF-1 alpha \(HIF1A Products\)](#)

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Background: Synonyms: HIF1, MOP1, PASD8, HIF-1A, bHLHe78, HIF-1alpha, HIF1-ALPHA, Hypoxia-inducible factor 1-alpha, HIF-1-alpha, ARNT-interacting protein, Basic-helix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78, Member of PAS protein 1, PAS domain-containing protein 8, HIF1A

Background: Functions as a master transcriptional regulator of the adaptive response to hypoxia. Under hypoxic conditions, activates the transcription of over 4 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Activation requires recruitment of transcriptional coactivators such as CREBBP and EP3. Activity is enhanced by interaction with both, NCOA1 or NCOA2. Interaction with redox regulatory protein APEX seems to activate CTAD and potentiates activation by NCOA1 and CREBBP. Involved in the axonal distribution and transport of mitochondria in neurons during hypoxia.

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Gene ID: 3091

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UniProt: [Q16665](#)

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Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Cellular Response to Molecule of Bacterial Origin](#), [Carbohydrate Homeostasis](#), [Transition Metal Ion Homeostasis](#), [Tube Formation](#), [Regulation of Carbohydrate Metabolic Process](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#), [Warburg Effect](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
IP(1-2 µg)

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## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

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Product cited in: Talwar, Bauerfeld, Bouhamdan, Farshi, Liu, Samavati: "MKP-1 negatively regulates LPS-mediated IL-1β production through p38 activation and HIF-1α expression." in: **Cellular signalling**, Vol. 34, pp. 1-10, (2017) ([PubMed](#)).

Talwar, Bauerfeld, Liu, Samavati: "The dataset describes: HIF-1 α expression and LPS mediated cytokine production in MKP-1 deficient bone marrow derived murine macrophages." in: **Data in brief**, Vol. 14, pp. 56-61, (2017) ([PubMed](#)).

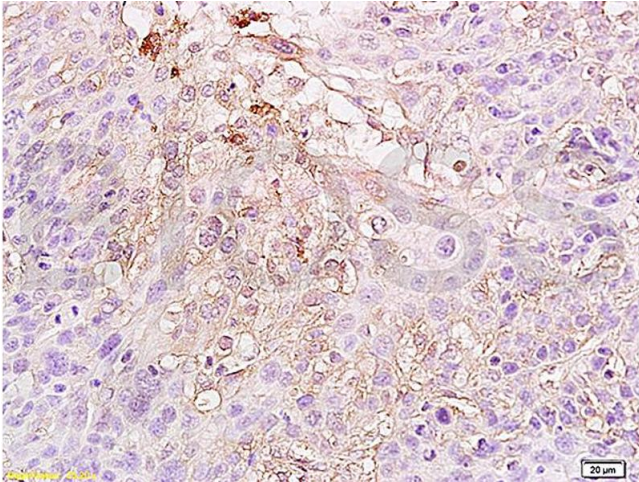
Madka, Mohammed, Li, Zhang, Biddick, Patlolla, Lightfoot, Towner, Wu, Steele, Kopelovich, Rao: "Targeting mTOR and p53 Signaling Inhibits Muscle Invasive Bladder Cancer In Vivo." in: **Cancer prevention research (Philadelphia, Pa.)**, Vol. 9, Issue 1, pp. 53-62, (2016) ([PubMed](#)).

Yang, Lu, Guo: "Platelet-rich plasma protects rat chondrocytes from interleukin-1β-induced apoptosis." in: **Molecular medicine reports**, Vol. 14, Issue 5, pp. 4075-4082, (2016) ([PubMed](#)).

Zhang, Ren, Tang, Wang, Liu, Zhang, Li, Liu, Zhao, He: "Vascular normalization induced by sinomenine hydrochloride results in suppressed mammary tumor growth and metastasis." in: **Scientific reports**, Vol. 5, pp. 8888, (2015) ([PubMed](#)).

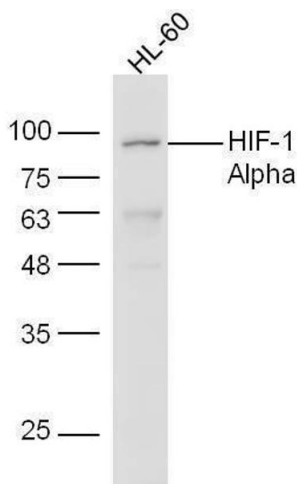
There are more publications referencing this product on: [Product page](#)

Images



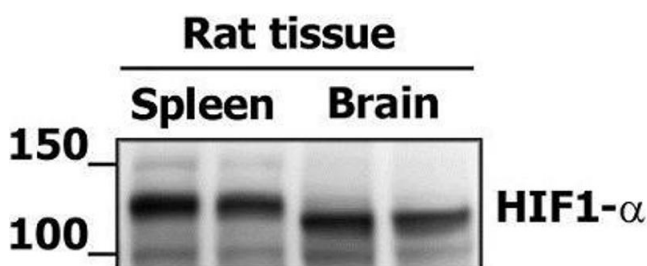
**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded human cervical carcinoma labeled Anti-HIF-1-Alpha Polyclonal Antibody (ABIN672546), Unconjugated at 1:300, followed by conjugation to the secondary antibody and DAB staining



**Western Blotting**

**Image 2.** HL-60 cell lysates probed with Anti-HIF-1 Alpha Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.



**Western Blotting**

**Image 3.** Image kindly submitted by Edita Aksamitiene as part of the Free Sample Program. Rat brain and spleen lysates probed with Rabbit Anti-HIF-1 Alpha Polyclonal Antibody at 1:1000.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN672546.