

DATASHEET

HIF1 alpha Mouse Monoclonal Antibody(C3917)

CAT. NO. AMA03529

KEY FEATURES

Target	HIF1 alpha	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgM kappa. Supplied in crude ascites with 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Functions as a master transcriptional regulator of the adaptive response to hypoxia . Under hypoxic conditions, activates the transcription of over 40 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 . Heterodimerizes with ARNT; heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters . Activation requires recruitment of transcriptional coactivators such as CREBBP and EP300 . Activity is enhanced by interaction with NCOA1 and/or NCOA2 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

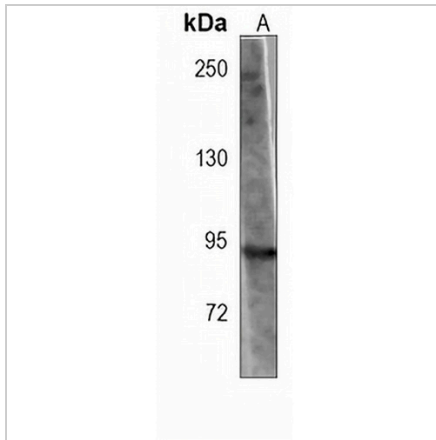
Description	Mouse monoclonal antibody to HIF1 alpha
Specificity	Recognizes endogenous levels of HIF1 alpha protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human HIF1 alpha. The exact sequence is proprietary.
Molecular Weight	Predicted: 92 kD; Observed: 92 kD
Form/Buffer	Mouse IgM kappa. Supplied in crude ascites with 0.01% sodium azide.
Alternative Names	BHLHE78; MOP1; PASD8; Hypoxia-inducible factor 1-alpha; HIF-1-alpha; HIF1-alpha; ARNT-interacting protein; Basic-helix-loop-helix-PAS protein MOP1; Class E basic helix-loop-helix protein 78; bHLHe78; Member of PAS protein 1; PAS domain-containing protein 8
Gene Symbol	HIF1A
Entrez Gene	3091(Human)
SwissProt	Q16665(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of HIF1 alpha expression in U251 (A) whole cell lysates. (Predicted band size: 92 kD; Observed band size: 92 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.