

MB0593

HIF1A Antibody



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☐ 100μl;50μl

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 (By similarity). Activation requires recruitment of transcriptional coactivators such as CREBBP and EP300. 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.

Alternative Name:

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) HIF1A BHLHE78 MOP1 PASD8

Reactivity : Human, Mouse, Monkey

Application : WB,IHC,IF/ICC

Recommended Dilution:

WB,IHC,IF/ICC, ELISA Recommended dilution WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500 ELISA 1:2000

Mol Weight : 120kD; 93kDa(Calculated).

Gene Symbol : HIF1A BHLHE78 MOP1 PASD8

Uniprot : Q16665

Uniprot link:

<https://www.uniprot.org/uniprotkb/q16665>

Immunogen :

Source : Mouse

Clonality : Monoclonal

Isotype : Mouse IgG

Specificity:

HIF1A antibody detects endogenous levels of total HIF1A.

Research Area : Angiogenesis

Buffer:

PBS,pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Storage:

Store at -20 °C. Stable for 12 months from date of receipt.