

HIF1A Antibody

Catalog No: #AB21691



Package Size: #AB21691-1 50ul #AB21691-2 100ul

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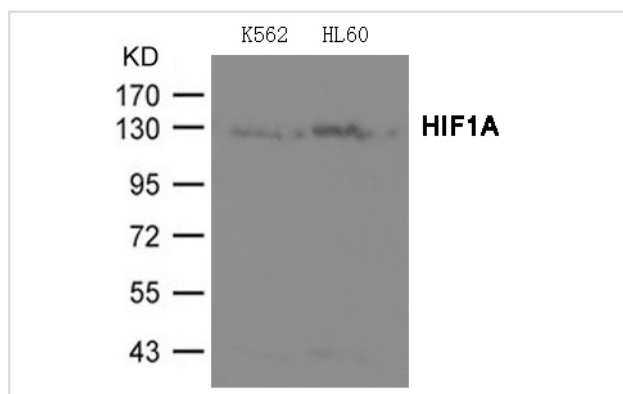
Description

Product Name	HIF1A Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total HIF1A protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.817-821(E-L-L-R-A) derived from Human HIF1A.
Target Name	HIF1A
Other Names	HIF1; MOP1; PASD8; HIF-1A; bHLHe78
Accession No.	Swiss-Prot#: Q16665; NCBI Gene#: 3091; NCBI Protein#: NP_001230013.1
SDS-PAGE MW	120kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB: 1:500~1:1000

Images



Western blot analysis of extracts from K562 and HL-60 cells using HIF1A Antibody #AB21691.

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. 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 CREBPB 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.