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HIF-1 α (Acetyl Lys532) rabbit pAb

Catalog No	YP-Ab-00906
Isotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
Gene Name	HIF1A BHLHE78 MOP1 PASD8
Protein Name	HIF-1α (Acetyl Lys532)
Immunogen	Synthesized peptide derived from human HIF-1 α (Acetyl Lys532)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat HIF-1α(Acetyl Lys532)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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)
Observed Band	125kD
Cell Pathway	Cytoplasm . Nucleus . Nucleus speckle . Colocalizes with HIF3A in the nucleus and speckles (By similarity). Cytoplasmic in normoxia, nuclear translocation in response to hypoxia (PubMed:9822602)
Tissue Specificity	Expressed in most tissues with highest levels in kidney and heart. Overexpressed in the majority of common human cancers and their metastases, due to the presence of intratumoral hypoxia and as a result of mutations in genes encoding oncoproteins and tumor suppressors. A higher level expression seen in pituitary tumors as compared to the pituitary gland.
Function	cell morphogenesis, cell morphogenesis involved in differentiation, angiogenesis, blood vessel development, response to hypoxia, ameboidal cell migration, in utero embryonic development, neural crest cell migration, regulation of cytokine production, positive regulation of cytokine production, epithelial to mesenchymal transition, placenta development, embryonic placenta development, regulation of endothelial cell proliferation, positive regulation of endothelial cell proliferation, positive regulation of endothelial cell proliferation, vasculature development, healing during inflammatory response, connective tissue replacement during inflammatory response. lactate metabolic process. regulation



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of carbohydrate metabolic process,regulation of glycolysis, transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent,regulation of transcription from RNA polymerase II promoter, transcription from RNA polymerase II promo

matters needing attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For more information, please consult technical personnel.	Background	domain: Contains two independent C-terminal transactivation domains, NTAD and CTAD, which function synergistically. Their transcriptional activity is repressed by an intervening inhibitory domain (ID). function: 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, 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. Blinds 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. induction: Under reduced oxygen tension. Induced also by various receptor-mediated factors such as growth factors, cytokines, and circulatory factors such as PDGF, EGF FGF-27 EGF-21 GF-2, TGF-1 beta, HGF, TNF alpha, IL-1 beta, angiotensin-2 and thrombin. However, this inducible factor entry, PTM:In normoxia, is hydroxylated on Asn-803 by HIF1AN, thus abrogating interaction with CREBBP and EP300 and preventing transcriptional activation. This hydroxylated on Pro-402 and Pro-544 in the oxygen-dependent degradation domain (ODD) by EGLN1/PHD1 and EGLN2/PHD2. EGLN3/PHD3 has also been shown to hydroxylate Pro-564. The hydroxylated proline space and unproved activity of HIF-1 complex, PTM:Sumoylated; by SUMO1 under hypoxia. Sumoylation for DNA-binding, PTM-Sintosylation of Cys-800 may be responsible for increased HIF1A stability and transriptional activity, PTM:The iron and 2-oxoglutaret dependent 3-hydroxylation of asparagine is (S) stereospecific within HIF
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