## For Research Use Only

## HIF-1 alpha Monoclonal antibody Catalog Number:66730-1-Ig Featured Product 62 Publications

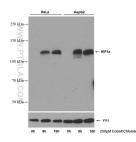


Basic Information	Catalog Number: 66730-1-lg	GenBank Accession Number: BC012527	Purification Method: Protein A purification	
	Concentration:	GeneID (NCBI):	CloneNo.:	
	1000 µg/ml Source:	3091 UNIPROT ID:	1H3C12 Recommended Dilutions:	
	Mouse	Q16665	WB 1:2000-1:10000	
	Isotype: IgG1 Immunogen Catalog Number: AG15198	Full Name: hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)		
		Calculated MW: 826 aa, 93 kDa		
		Observed MW: 120 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, ELISA Cited Applications: WB, IHC, IF, IP, ChIP		WB : HeLa cells, Cobalt Chloride treated HeLa cells, Cobalt Chloride treated HepG2 cells	
	Species Specificity: Human			
	Cited Species: human			
Background Information	HIF1a, the major regulator of the cellular responses to hypoxia, consists of an oxygen-sensitive subunit, HIF1 alpha (HIF1A), and an oxygen-insensitive subunit, HIF1 beta (arylhydrocarbon receptor nuclear transporter [ARNT]). Unde normal oxygen conditions, HIF1a is continuously produced and destroyed, in a process involving hydroxylation, interaction with von Hippel-Lindau (VHL) protein, polyubiquitylation and subsequent proteasomal degradation. Under hypoxic conditions, hydroxylation is impaired and HIF1a is stabilized. HIF1a localizes in cytoplasm in normoxia, but it can translocate into nuclear in response to hypoxia. The calculated molecular weight of HIF1a is 92 kDa, but the modified protein HIF1a is about 110-120kDa (PMID: 11698256, .PMID: 7539918).			
Notable Publications	Author	Pubmed ID Journal	Application	
	Bin Zhang	32987196 Int J Biochem Cel	l Biol WB	
	Jingjing Zheng	32978798 Ann N Y Acad Sci	WB	
	Wenjian Liu	34542841 Tissue Eng Regen	Med WB	
	Storage:			

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Untreated and cobalt chloride treated HeLa and HepG2 cells were subjected to SDS-PAGE followed by western blot with 66730-1-lg (HIF1a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with YY1 antibody as loading control.