## For Research Use Only

## HIF-1 alpha Monoclonal antibody

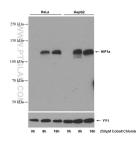
Catalog Number:66730-1-lg 43 Publications



Basic Information	Catalog Number: 66730-1-lg	GenBank Accession Number: BC012527	Purification Meth Protein A purifica		
	Size: 1000 μg/ml	GenelD (NCBI): 3091	CloneNo.: 1H3C12		
	Source: Mouse	UNIPROT ID: Q16665	Recommended D WB 1:2000-1:100		
	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:	e Controls:			
	WB, ELISA Cited Applications: WB, IP, IF, IHC, 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]). Under 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	Cell Biol	WB	
	Jingjing Zheng	32978798 Ann N Y Acad S	Sci	WB	
	Wenjian Liu	34542841 Tissue Eng Reg	gen Med	WB	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer:	ar after shipment.			

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## 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.