

For Research Use Only

HRP-conjugated HIF1a Monoclonal antibody



Catalog Number:HRP-66730

Basic Information

Catalog Number: HRP-66730	GenBank Accession Number: BC012527	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3091	CloneNo.: 1H3C12
Source: Mouse	Full Name: hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	
Isotype: IgG1	Calculated MW: 826 aa, 93 kDa	
Immunogen Catalog Number: AG15198	Observed MW: 120 kDa	

Applications

Tested Applications:
Species Specificity:
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 93 kDa, but the modified protein HIF1a is about 110-120kDa (PMID: 11698256, .PMID: 7539918) .

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data