

For Research Use Only

# Mouse Hif-1 alpha Recombinant monoclonal antibody, PBS Only

Catalog Number: 82989-6-PBS



## Basic Information

<b>Catalog Number:</b> 82989-6-PBS	<b>GenBank Accession Number:</b> NM_001313919	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 15251	<b>CloneNo.:</b> 230101B3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q61221	
<b>Isotype:</b> IgG	<b>Full Name:</b> hypoxia inducible factor 1, alpha subunit	
<b>Immunogen Catalog Number:</b> AG33620	<b>Calculated MW:</b> 93 kDa	

## Applications

**Tested Applications:**  
IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
mouse

## 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

## Storage

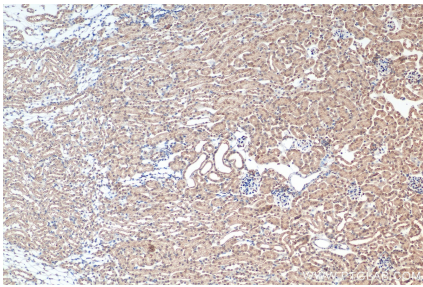
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

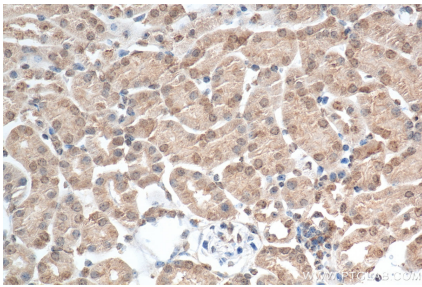
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

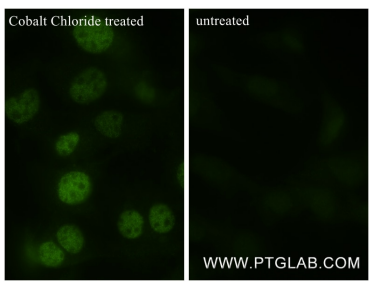
Selected Validation Data



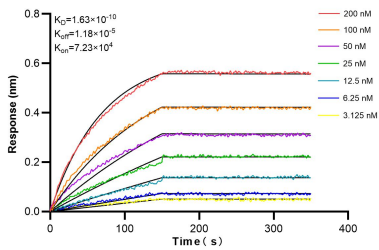
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 82989-6-RR (Hif-1 alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82989-6-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 82989-6-RR (Hif-1 alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82989-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Cobalt Chloride treated NIH/3T3 cells using Hif-1 alpha antibody (82989-6-RR, Clone: 230101B3 ) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 82989-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82989-6-RR against Mouse Hif1a were performed. The affinity constant is 0.163 nM.