

For Research Use Only

Mouse Hif-1 alpha Recombinant monoclonal antibody, PBS Only

Catalog Number: 82989-6-PBS



Basic Information

Catalog Number: 82989-6-PBS	GenBank Accession Number: NM_001313919	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 15251	CloneNo.: 230101B3
Isotype: IgG	UNIPROT ID: Q61221	
Immunogen Catalog Number: AG33620	Full Name: hypoxia inducible factor 1, alpha subunit	
	Calculated MW: 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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

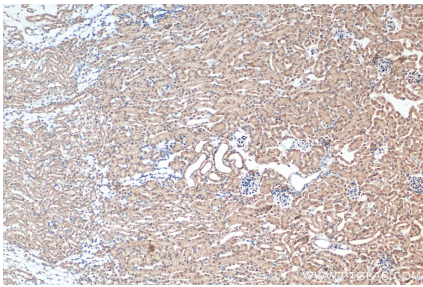
T: 4006900926

E: Proteintech-CN@ptglab.com

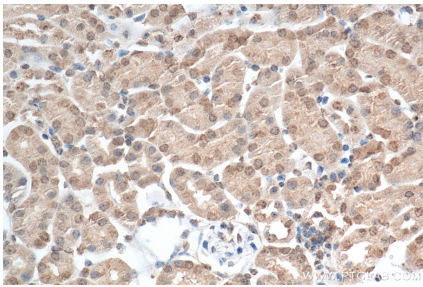
W: ptgcn.com

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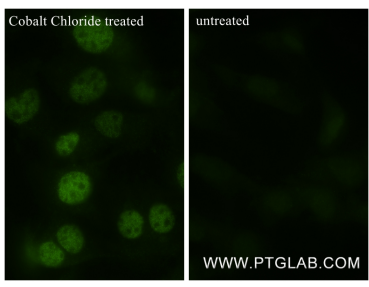
Selected Validation Data



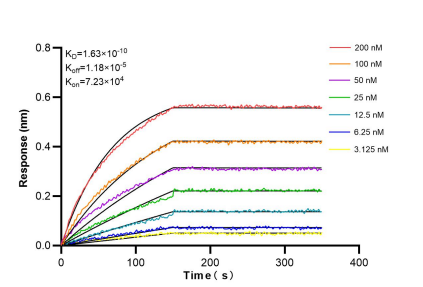
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 82989-6-RR (Hif-1 alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82989-6-PBS in a different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