

For Research Use Only

Hif-1 alpha Recombinant monoclonal antibody

Catalog Number: 82989-6-RR



Basic Information

Catalog Number: 82989-6-RR	GenBank Accession Number: NM_001313919	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 15251	CloneNo.: 230101B3
Isotype: IgG	UNIPROT ID: Q61221	Recommended Dilutions: IHC: 1:50-1:500 IF/ICC: 1:250-1:1000
Immunogen Catalog Number: AG33620	Full Name: hypoxia inducible factor 1, alpha subunit Calculated MW: 93 kDa	

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: mouse	IHC : mouse kidney tissue, IF/ICC : Cobalt Chloride treated NIH/3T3 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

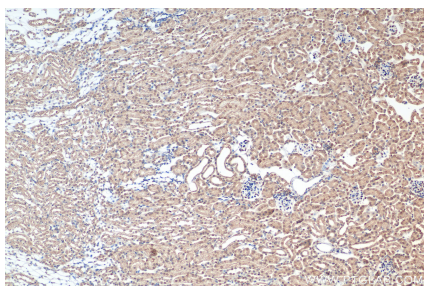
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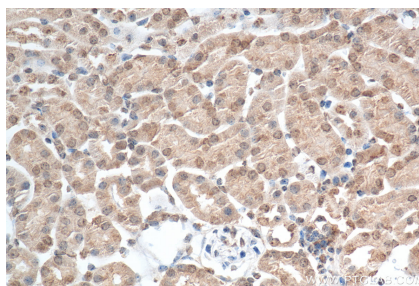
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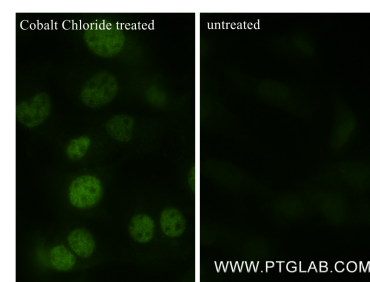
Selected Validation Data



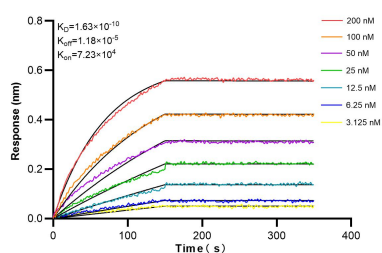
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 82989-6-RR (Hif-1 alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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