

For Research Use Only

HIF-1 alpha Recombinant antibody, PBS Only



Catalog Number: 80933-1-PBS

Featured Product

Basic Information

Catalog Number:

80933-1-PBS

Size:

100ug, Concentration: 1000 µg/ml by 3091

Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15198

GenBank Accession Number:

BC012527

GeneID (NCBI):

3091

UNIPROT ID:

Q16665

Full Name:

hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)

Calculated MW:

826 aa, 93 kDa

Observed MW:

120 kDa

Purification Method:

Protein A purification

CloneNo.:

2K1

Applications

Tested Applications:

WB, IF, IHC, ELISA

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. Stable for one year after shipment.

Storage Buffer:

PBS only

Aliquoting is unnecessary for -20°C storage

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

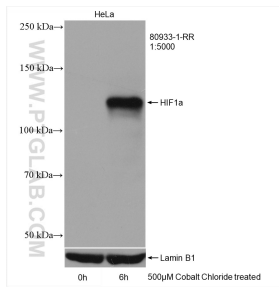
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

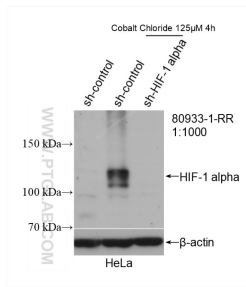
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

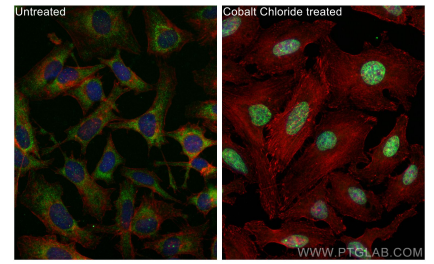
Selected Validation Data



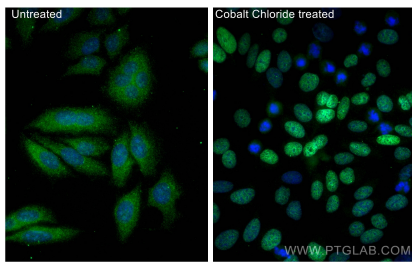
Untreated and Cobalt Chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 80933-1-RR (HIF1a antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80933-1-PBS in a different storage buffer formulation.



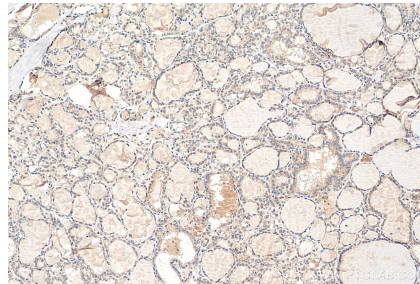
WB result of HIF-1 alpha antibody (80933-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HIF-1 alpha transfected HeLa cells. Sample 1: non-treated sh-Control transfected HeLa cells, Sample 2: Cobalt Chloride treated sh-Control transfected HeLa cells, Sample 3: Cobalt Chloride treated sh-HIF-1 alpha transfected HeLa cells. This data was developed using the same antibody clone with 80933-1-PBS in a different storage buffer formulation.



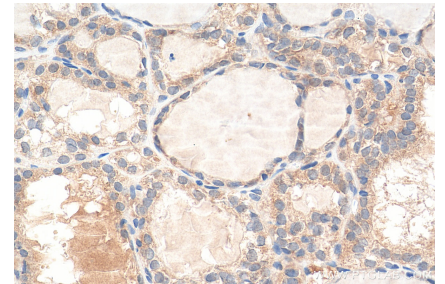
Immunofluorescent analysis of (-20°C Ethanol) fixed Cobalt Chloride treated HeLa cells using HIF-1 alpha antibody (80933-1-RR, Clone: 2K1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 80933-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed Cobalt Chloride treated HepG2 cells using HIF1a antibody (80933-1-RR, Clone: 2K1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 80933-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 80933-1-RR (HIF1a 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 80933-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 80933-1-RR (HIF1a 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 80933-1-PBS in a different storage buffer formulation.