À des fins de recherche uniquement

Anticorps Recombinant de lapin anti-HIF-1 alpha

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Numéro de catalogue:80933-1-RR Phare

Informations de base

Numéro de catalogue:
80933-1-RR

Taille:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG15198

Numéro d'acquisition GenBank:
BC012527

Identification du gène (NCBI):
3091

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

MW calculé
826 aa, 93 kDa

MW observés:
120 kDa

Méthode de purification:
Purification par protéine A

CloneNo.:
2K1

Dilutions recommandées:
WB 1:2000-1:10000
IHC 1:50-1:500
IF 1:200-1:800

Applications

Applications testées:
IF, IHC, WB, ELISA

Spécificité de l'espèce:
Humain

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HeLa traitées au chlorure de cobalt, cellules HeLa

IHC : tissu de cancer de la thyroïde humain,

IF : cellules HeLa traitées au chlorure de cobalt, cellules HepG2 traitées au chlorure de cobalt

Informations générales

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).

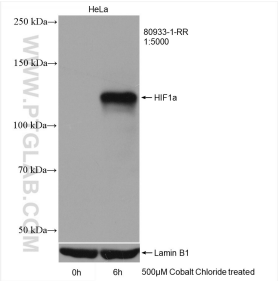
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

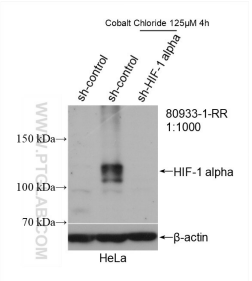
***** Les 20ul contiennent 0,1% de BSA.**

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

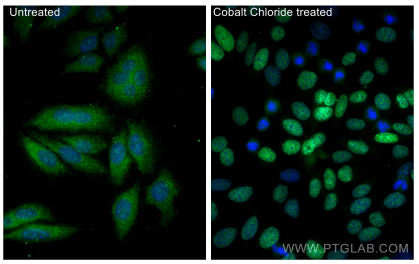
Données de validation sélectionnées



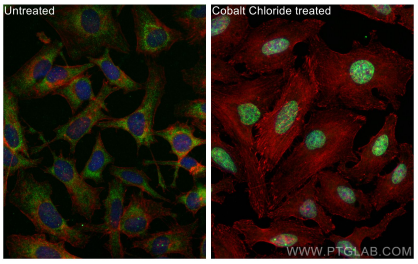
Untreated and Cobalt Chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 80933-1-RR (HIF1a antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



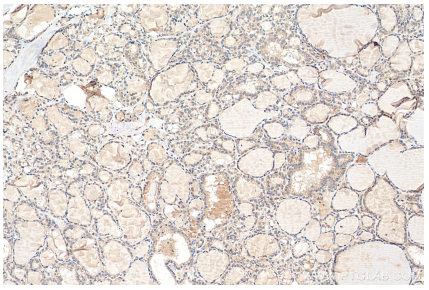
WB result of HIF-1 alpha antibody (80933-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HIF-1 alpha transfected HeLa cells. Sample 1: non-treated sh-Control transfected HeLa cells, Sample 2: Cobalt Chloride treated sh-Control transfected HeLa cells, Sample 3: Cobalt Chloride treated sh-HIF-1 alpha transfected HeLa cells.



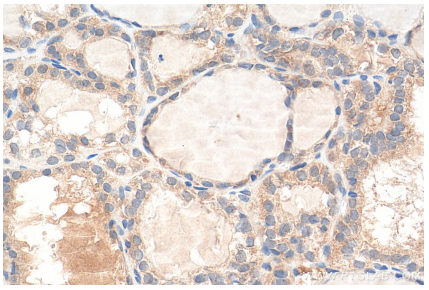
Immunofluorescent analysis of (-20°C Ethanol) fixed Cobalt Chloride treated HepG2 cells using HIF1a antibody (80933-1-RR, Clone: 2K1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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).



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).



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).