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Datasheet

Date : 2016/4/12

Catalog Number	GTX628480 Package:250 µl ★★★★★ (3) Reference (1)
Product Name	HIF1 alpha antibody [GT10211]
Full Name	hypoxia-inducible factor 1-alpha
Synonyms	HIF-1alpha antibody, HIF1 antibody, HIF1-ALPHA antibody, MOP1 antibody, PASD8 antibody, bHLHe78 antibody, HIF1A antibody, basic-helix-loop-helix-PAS protein MOP1 antibody, class E basic helix-loop-helix protein 78 antibody, ARNT-interacting protein antibody, member of PAS superfamily 1 antibody, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) antibody, hypoxia-inducible factor 1-alpha antibody, hypoxia-inducible factor 1 alpha isoform I.3 antibody, PAS domain-containing protein 8 antibody, member of PAS protein 1 antibody, HIF-1-alpha antibody, ARNT interacting protein antibody, hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) antibody
Product Description	Mouse Monoclonal antibody to HIF1 alpha (hypoxia-inducible factor 1-alpha)
Background	Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq]
Host	Mouse
Clonality	Monoclonal
Clone Name	GT10211
Isotype	IgG2a
Antigen Species	Human
Species Reactivity	Human
Applications	ICC/IF, IHC-P, IP, WB

Application Note

	Suggested dilution	Reference
ICC/IF	1:100-1:1000*	
IHC (Formalin-fixed paraffin-embedded sections)	Assay-dependent dilution	
Immunoprecipitation	1:100-1:500*	
Western blot	1:100-1:3000*	

Not tested in other applications.
*Optimal dilutions/concentrations should be determined by the researcher.

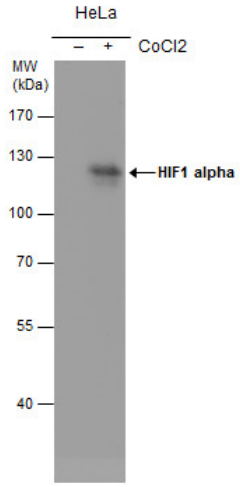
Positive Controls	HepG2 (hypoxia:1%O2 48hr)
Predicted Target Size	93 kDa
Cellular Localization	Cytoplasm , Nucleus
Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Affinity purified by Protein G.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	PBS
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human

consumption.

ResearchArea	Cancer > Apoptosis > Metastasis and Invasion > Invasion Cancer > Apoptosis > Metastasis and Invasion > Metastasis > Lymphatic Cancer > Hypoxia

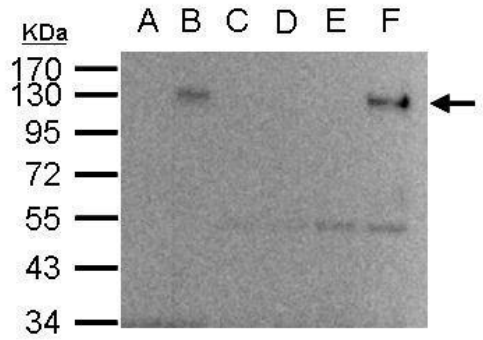
Application Reference

1. Biao Ma (2014) *Nat Cell Biol*. 95-103



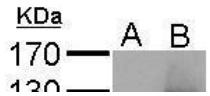
GTX628480 WB Image

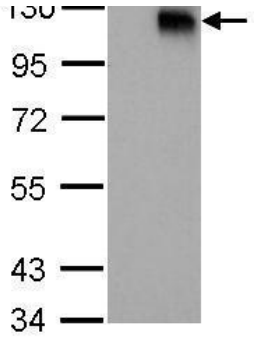
HIF1 alpha antibody [GT10211] detects HIF1 alpha protein by western blot analysis. Un-treated (-) and treated (+, 500 µM CoCl2 treatment for 24hr) HeLa whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HIF1 alpha antibody [GT10211] (GTX628480) at a dilution of 1:500.



GTX628480 IP Image

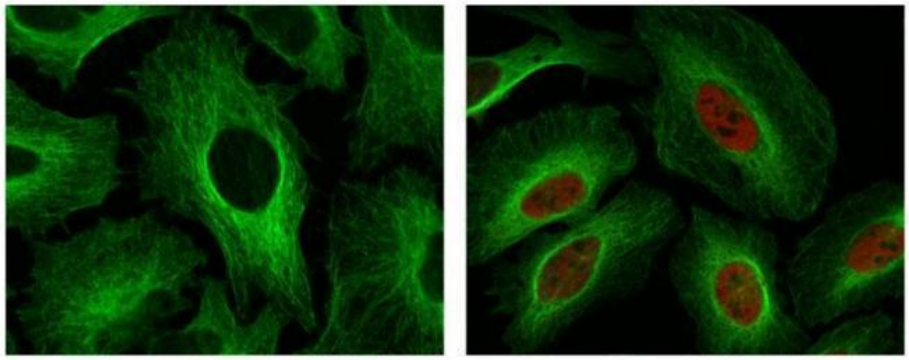
HIF-1 alpha antibody immunoprecipitates HIF-1 alpha protein in IP experiments.
IP Sample: 1000 µg HepG2 whole cell lysate/extract
A. 40 µg HepG2 whole cell lysate/extract from normoxia
B. 40 µg HepG2 whole cell lysate/extract from hypoxia 24hr (1%O2)
C. Control with 2.5 µg of preimmune mouse IgG/HepG2 whole cell lysate/extract from normoxia
D. Control with 2.5 µg of preimmune mouse IgG/ HepG2 whole cell lysate/extract from hypoxia 24hr (1%O2)
E. Immunoprecipitation of HIF-1 alpha protein by 2.5 µg of HIF-1 alpha antibody (GTX628480)/HepG2 whole cell lysate/extract from normoxia
F. Immunoprecipitation of HIF-1 alpha protein by 2.5 µg of HIF-1 alpha antibody (GTX628480)/HepG2 whole cell lysate/extract from hypoxia 24hr (1%O2)
10% SDS-PAGE
The immunoprecipitated HIF-1 alpha protein was detected by HIF-1 alpha antibody (GTX628480) diluted at 1:500.
EasyBlot anti-mouse IgG (GTX221667-01) was used as a secondary reagent.





GTX628480 WB Image

HIF1 alpha antibody [GT10211] detects HIF1A protein by Western blot analysis.
A. 30 µg HepG2 whole cell lysate/extract (untreated)
B. 30 µg HepG2 whole cell lysate/extract (1%O2 treatment for 48hr)
7.5 % SDS-PAGE
HIF1 alpha antibody [GT10211] (GTX628480) dilution: 1:250



GTX628480 ICC/IF Image

HIF1 alpha antibody detects HIF1 alpha protein at nuclear by confocal immunofluorescent analysis. Sample: Hypoxia (500µM CoCl2) treated 24hr (right) or untreated (left) HeLa cells were fixed in 4% paraformaldehyde for 15 min. Red: HIF1 alpha protein stained by HIF1 alpha antibody (GTX628480) diluted at 1:250. Green: Alpha-tubulin, a cytoskeleton marker, stained by Rabbit Polyclonal antibody (GTX102078) diluted at 1:500. [Images captured by Olympus FV10i Confocal Laser Scanning Microscope]