

For Research Use Only

HIF-1 alpha Monoclonal antibody, PBS Only

Catalog Number: 66730-1-PBS

Featured Product



Basic Information

Catalog Number:

66730-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

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.:

1H3C12

Applications

Tested Applications:

WB, Indirect 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 -80°C.

Storage Buffer:

PBS Only

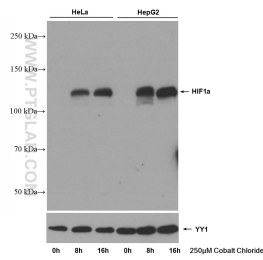
For technical support and original validation data for this product please contact:

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Selected Validation Data



Untreated and cobalt chloride treated HeLa and HepG2 cells were subjected to SDS-PAGE followed by western blot with 66730-1-Ig (HIF1a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with YY1 antibody as loading control. This data was developed using the same antibody clone with 66730-1-PBS in a different storage buffer formulation.