

A22041

Leader in Biomolecular Solutions for Life Science



# HIF-1alpha Rabbit mAb

Catalog No.: A22041

Recombinant

18 Publications

## Basic Information

### Observed MW

120kDa

### Calculated MW

93kDa

### Category

SMab Recombinant Monoclonal Antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC0135

## Recommended Dilutions

**WB** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Background

This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

## Immunogen Information

### Gene ID

3091

### Swiss Prot

Q16665

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 600-700 of human HIF1α (NP\_001521.1).

### Synonyms

HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF-1-alpha

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

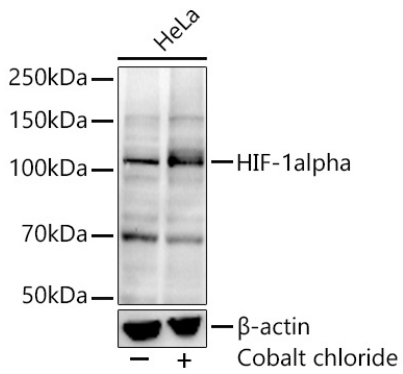
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data

---



Western blot analysis of lysates from HeLa cells, using HIF-1alpha Rabbit mAb (A22041) at 1:1000 dilution. HeLa cells were treated by Cobalt chloride (0.1 mM) at 37°C for 4 hours.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.