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## [KO Validated] HIF-1-alpha Rabbit mAb

Catalog No.: A24002 KO Validated Recombinant 1 Publications

## **Basic Information**

## **Observed MW**

120kDa

#### **Calculated MW**

93kDa

## Category

Primary antibody

## **Applications**

WB,ELISA

#### **Cross-Reactivity**

Human, Mouse

#### CloneNo number

ARC3208

## **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.

## **Recommended Dilutions**

WB 1:100 - 1:500

**ELISA** 

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

## Immunogen Information

**Gene ID**Swiss Prot
3091
Q16665

#### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

## **Synonyms**

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

## **Contact**

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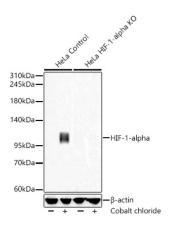
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of lysates from wild type(WT) and HIF-1-alpha knockout (KO) Hela cells, using HIF-1-alpha Rabbit mAb (A24002) at 1:400 dilution. Hela cells were treated with Cobalt chloride (250 $\mu$ M) at 37°C for 16 hours.

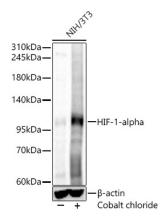
Secondary antibody: HRP-conjugated Goat anti-Rabbit  $IgG\ (H+L)\ (AS014)$  at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.



Western blot analysis of lysates from wild type(WT) and HIF-1-alpha Rabbit mAb knockout (KO) NIH/3T3,NIH/3T3 Cobalt chloride cells, using HIF-1-alpha Rabbit mAb (A24002) at 1:400 dilution. NIH/3T3 cells were treated with Cobalt chloride (300 $\mu$ M) at 37°C for 6 hours.

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

Lysates/proteins:  $25\mu g$  per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.