Product datasheet

# Anti-HIF-1 alpha/HIF1A Antibody

**Catalog Number: *A00013-1***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-HIF-1 alpha/HIF1A Antibody |
| **Gene Name** | HIF1A |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human |
| **Tested Application** | WB, ELISA |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | E.coli-derived human HIF-1 alpha/HIF1A recombinant protein (Position: H197-R718). |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 120 kDa |
| **Dilution Ratios** | Western blot (WB):1:500-2000<br>ELISA: 1:100-1000 |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

HIF-1α (Hypoxia-inducible factor 1α,HIF1A) is a transcription factor that mediates cellular and systemic homeostatic responses to reduced O2 availability in mammals, including angiogenesis, erythropoiesis and glycolysis. This gene was mapped to 14q21-q24. HIF-1α transactivate genes required for energy metabolism and tissue perfusion and is necessary for embryonic development and tumor explant growth. HIF-1alpha is over expressed during carcinogenesis, myocardial infarction and wound healing. It is crucial for the cellular response to hypoxia and is frequently over expressed in human cancers, resulting in the activation of genes essential for cell survival. HIF-1α regulates the survival and function in the inflammatory microenvironment directly. It is a transcription factor that plays a pivotal role in cellular adaptation to changes in oxygen availability.

## Reference

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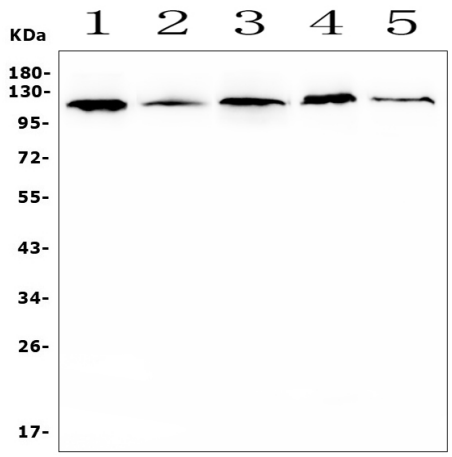
Anti-HIF-1 alpha/HIF1A Antibody被引用在9文献中。

## Selected Validation Data




Western blot analysis of HIF-1 alpha/HIF1A using anti-HIF-1 alpha/HIF1A antibody (A00013-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human U-87MG whole cell lysates,
Lane 2: human PC-3 whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: human HepG2 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HIF-1 alpha/HIF1A antigen affinity purified polyclonal antibody (A00013-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HIF-1 alpha/HIF1A at approximately 120 kDa. The expected band size for HIF-1 alpha/HIF1A is at 93 kDa.