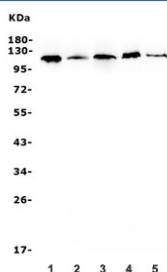


## HIF-1 alpha Antibody (RQ5614)

Catalog No.	Formulation	Size
RQ5614	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q16665
<b>Applications</b>	Western Blot : 0.25-0.5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This HIF-1 alpha antibody is available for research use only.



Western blot testing of human 1) U-87 MG, 2) U-2 OS, 3) PC-3, 4) A549 and 5) HepG2 lysate with HIF-1 alpha antibody. Routinely observed molecular weight: 100~120 kDa.

## Description

HIF-1a (Hypoxia-inducible factor 1 alpha or HIF1A) is a transcription factor that mediates cellular and systemic homeostatic responses to reduced O<sub>2</sub> availability in mammals, including angiogenesis, erythropoiesis and glycolysis. This gene was mapped to 14q21-q24. HIF-1a 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-1a 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.

## **Application Notes**

Optimal dilution of the HIF-1 alpha antibody should be determined by the researcher.

## **Immunogen**

A human recombinant protein (amino acids H197-R718) was used as the immunogen for the HIF-1 alpha antibody.

## **Storage**

After reconstitution, the HIF-1 alpha antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.