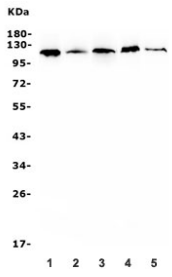
HIF-1 alpha Antibody (RQ5614)

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

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q16665
Applications	Western blot: 0.25-0.5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	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 O2 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.

For additional information on hypoxia-inducible factor 1 alpha and complementary antibody validation, visit our HIF1A Antibody / HIF-1 alpha 31H88 page.

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.

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