

## Human HIF-1 $\alpha$ Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0449	<b>Applications</b>	ELISA
<b>Synonyms</b>	HIF1A;HIF-1A;MOP1;PASD8;bHLHe78;basic helix-loop-helix transcription factor		

### Kit components & Storage

Title	Specifications	Storage
Human HIF-1 $\alpha$ Capture Antibody	1 vial, 100 $\mu$ g	Store at -20 $^{\circ}$ C for one year. Avoid freeze/thaw cycles.
Human HIF-1 $\alpha$ Detection Antibody (Biotin)	1 vial, 50 $\mu$ L	Store at -20 $^{\circ}$ C for one year. Avoid freeze/thaw cycles.

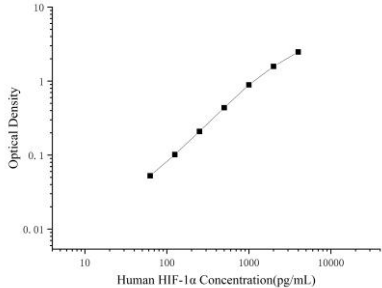
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0449)	
		Human HIF-1 $\alpha$ Capture Antibody	Human HIF-1 $\alpha$ Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human HIF-1 $\alpha$ protien	Recombinant Human HIF-1 $\alpha$ protien
	Swissprot	Q16665	
Product details	Reactivity	Human	Human
	Host	Rabbit	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human HIF-1 $\alpha$ in ELISAs.	

## Applications

Human HIF-1 $\alpha$  Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 $\mu$ g/mL	Human HIF-1 $\alpha$ Capture Antibody	
ELISA Detection	1:1000-1:10000	Human HIF-1 $\alpha$ Detection Antibody (Biotin)	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## 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.