Human HIF-1α Antibody Pair Set

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

Kit components & Storage

Title	Specifications	Storage
Human HIF-1α Capture Antibody	1 vial, 100 μ g	Store at -20℃ for one year. Avoid freeze/thaw cycles.
Human HIF-1α Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ 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-1α Capture Antibody	Human HIF-1α Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human HIF-1α protien	Recombinant Human HIF-1α 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-1α in ELISAs.	

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
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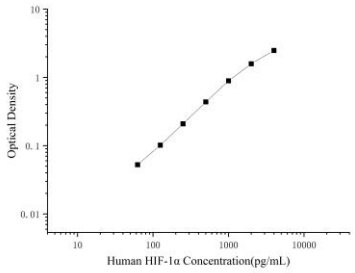
Applications

Human HIF-1α Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 μg/mL	Human HIF-1α Capture Antibody	
ELISA Detection	1:1000-1:10000	Human HIF-1α 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.

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