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Datasheet for ABIN4889776 HIF1A ELISA Kit

2 Images



Overview

Quantity:	96 tests
Target:	HIF1A
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	Human HIF-1 α Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with
	canonical HIF-1 α binding sequences to semi-quantitatively detect active HIF-1 α in lysates or
	nuclear extracts. Only available in North America.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human HIF-1a in whole lysates
	and nuclear extracts.
Characteristics:	Specific transcription factor-DNA binding assay
	Perfect alternative to EMSA
	Easy to perform in an ELISA format
	Non-radioactive assay
	High throughput (96 well plate format)
	Assay can be completed within 5 hours

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Product Details

Components:	96-well Strip Microplate pre-coated with DNA probesDNA Binding Buffer
	Positive Control Sample
	Specific Competitor DNA probe
	Non-specific Competitor DNA probe
	Assay Reagent
	• DTT
	• Wash Buffer
	Primary Antibody
	HRP-conjugated Secondary Antibody
	TMB One-Step Substrate Reagent
	Stop Solution
Material not included:	Distilled or deionized water
	 100 mL and 1 liter graduated cylinders
	Tubes to prepare sample dilutions Absorbent paper
	 Precision pipettes to deliver 2 µL to 1 mL volumes
	Adjustable 1-25 mL pipettes for reagent preparation
	Benchtop rocker or shaker
	 Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target:	HIF1A
Alternative Name:	HIF-1 alpha (HIF1A Products)
UniProt:	Q16665
Pathways:	Positive Regulation of Peptide Hormone Secretion, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Cellular Response to Molecule of Bacterial Origin, Carbohydrate Homeostasis, Transition Metal Ion Homeostasis, Tube Formation, Regulation of Carbohydrate Metabolic Process, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual.

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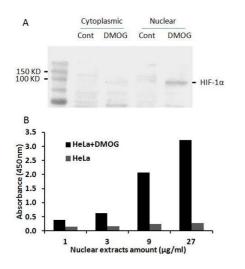
	2. Add 100 μ L of sample or positive control to each well.
	3. Incubate 2 h at RT or O/N at 4 °C.
	4. Add 100 μ L of prepared primary antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 μ L of prepared HRP-secondary antibody to each well.
	7. Incubate 1 h at RT.
	8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 μL of Stop Solution to each well.
	11. Read at 450 nm immediately.
Restrictions:	For Research Use only
Handling	
Storage:	-20 °C
Storage Comment:	Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened

Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge.

Note: The kit can be used within one year if the whole kit is stored at -20°C upon receipt. Avoid repeated freeze-thaw cycles.

Expiry Date:

Images

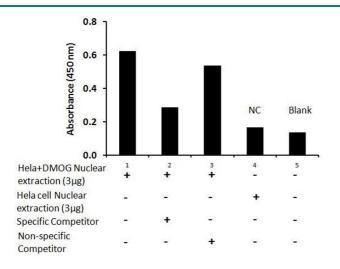


6 months

Activity Assay

Image 1. Transcription factor activity assay of HIF-1 α from nuclear extracts of HeLa cells or HeLa cells treated with DMOG (1mM) for 4 hr. A. Western-blot result of HIF-1 α from cytoplasm and nuclear fractions. B. Transcription factor activity assay of HIF-1 α from nuclear fractions with the HIF-1 α Transcription Factor Activity Assay Kit.

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Activity Assay

Image 2. Transcription factor activity assay of HIF-1 α from nuclear extracts of HeLa cells or HeLa cells treated with DMOG (1mM) for 4 hr with the specific competitor or non-specific competitor. The result shows specific binding of HIF-1 α to the HRE binding site.

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