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Datasheet for ABIN5690734  
**HIF1A ELISA Kit**

### Overview

Quantity: 96 tests

Target: HIF1A

Reactivity: Human

Method Type: Cell ELISA

Application: ELISA

### Product Details

Purpose: Human Hydroxylated-HIF-1 alpha (P402) Cell-based ELISA Kit. This ELISA is for measuring hydroxylated HIF-1 alpha (Pro-402) in human adherent cell lines.

Sample Type: Adherent Cell Culture

Analytical Method: Semi-Quantitative

Detection Method: Colorimetric

Specificity: The antibody pair provided in this kit recognizes human Hydroxylated-HIF-1alpha hydroxylated at site Proline-402

Characteristics:

- Rapidly measure phosphorylated protein in adherent cell lines
- Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)
- No sample lysis is needed
- Compatible with a standard ELISA plate reader

Components:

- Uncoated 96-well Strip Microplate
- Wash Buffers
- Fixing Solution

## Product Details

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- Quenching Buffer
- Blocking Buffer
- Anti-phospho antibody
- Anti-pan antibody
- HRP-Conjugated Secondary Antibody
- TMB One-Step Substrate
- Stop Solution

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### Material not included:

- Distilled or deionized water
- 100 mL and 1 liter graduated cylinders
- Tubes to prepare sample dilutions
- Protease and Phosphatase inhibitors
- Precision pipettes to deliver 2  $\mu$ L 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

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Target: HIF1A

Alternative Name: HIF-1alpha ([HIF1A Products](#))

Gene ID: 3091

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

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Plate: Uncoated

- Protocol:
1. Prepare all reagents and samples as instructed in the manual.
  2. Add 100  $\mu$ L of sample or positive control to each well.
  3. Incubate 2.5 h at RT or O/N at 4  $^{\circ}$ C.
  4. Add 100  $\mu$ L of prepared primary antibody to each well.
  5. Incubate 1 h at RT.
  6. Add 100  $\mu$ L of prepared 1X HRP-Streptavidin to each well.

## Application Details

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7. Incubate 1 h at RT.
8. Add 100  $\mu$ L of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50  $\mu$ L of Stop Solution to each well.
11. Read at 450 nm immediately.

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Restrictions: For Research Use only

## Handling

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Storage: 4 °C

Storage Comment: Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4 °C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 °C. Reconstituted Positive Control (Item K) should be stored at -70 °C.

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Expiry Date: 6 months