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Datasheet for ABIN2748394

MTOR ELISA Kit

Overview

Quantity: 96 tests

Target: MTOR (mTOR)

Binding Specificity: pSer2448

Reactivity: Human

Method Type: Cell ELISA

Application: ELISA

Product Details

Purpose: Cell-Based Human mTOR (S2448) Phosphorylation ELISA Kit. Suitable for adherent whole cell lines.

Sample Type: Cell Culture Cells

Analytical Method: Semi-Quantitative

Detection Method: Colorimetric

Specificity: The antibodies provided in this kit recognizes human and mouse mTOR phosphorylated at Serine-2448 and total mTOR for comparison.

Characteristics:

- Site and signal pathway-specific
- In vitro detection of adherent cell culture
- No sample lysis needed
- Compatible with a standard ELISA plate reader
- Faster results than with ELISA
- Adaptable for high-throughput screening and drug discovery

Product Details

| | |
|-------------|---|
| Components: | <ul style="list-style-type: none">• uncoated 96-well Microplate• Wash Buffer A• Wash Buffer B• Fixing Solution• 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: | <ul style="list-style-type: none">• 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 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 |
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Target Details

| | |
|-------------------|--|
| Target: | MTOR (mTOR) |
| Alternative Name: | mTOR (mTOR Products) |
| Background: | Mechanistic target of rapamycin, mammalian target of rapamycin (mTOR), FK506-binding protein 12-rapamycin-associated protein 1 (FRAP1) |
| Gene ID: | 2475 |
| UniProt: | P42345 |
| Pathways: | PI3K-Akt Signaling , RTK Signaling , AMPK Signaling , Interferon-gamma Pathway , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Actin Filament Polymerization , Regulation of Muscle Cell Differentiation , Regulation of Cell Size , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Autophagy , CXCR4-mediated Signaling Events , BCR Signaling , Warburg Effect |

Application Details

Sample Volume: 100 µL

Plate: Uncoated

Protocol:

1. Seed 10,000-30,000 cells into each well and incubate overnight.
2. Apply various treatment, inhibitors or activators according to manufacture's instructions.
3. Add 100 µL of Fixing Solution into each well and incubate for 20 min at RT with shaking.
4. Add 200 µL of prepared 1X Quenching Buffer and incubate 20 min at RT.
5. Add 200 µL of Blocking Solution and incubate for 1 h at 37 °C.
6. Add 50 µL of 1X anti-phospho-protein specific antibody or anti-pan-protein specific antibody to each well and incubate for 2 h at RT.
7. Add 50 µL of prepared 1X HRP-Anti-Rabbit or Mouse IgG and incubate for 1 h at RT.
8. Add 100 µL 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.

Assay Procedure:

Seed 10,000-30,000 cells into each well and incubate overnight.

Apply various treatment, inhibitors or activators according to manufacture's instructions.

Add 100 µL of Fixing Solution into each well and incubate for 20 min at RT with shaking.

Add 200 µL of prepared 1X Quenching Buffer and incubate 20 min at RT.

Add 200 µL of Blocking Solution and incubate for 1 h at 37 °C.

Add 50 µL of 1X anti-phospho-protein specific antibody or anti-pan-protein specific antibody to each well and incubate for 2 h at RT.

Add 50 µL of prepared 1X HRP-Anti-Rabbit or Mouse IgG and incubate for 1 h at RT.

Add 100 µL of TMB One-Step Substrate Reagent to each well.

Incubate 30 min at RT.

Add 50 µL of Stop Solution to each well.

Read at 450 nm immediately.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Storage Comment: The entire kit may be stored at -20°C for up to 6 months from the date of shipment. Avoid repeated freeze-thaw cycles.

Expiry Date: 6 months
