

[Go to Product page](#)

Datasheet for ABIN2748395

MTOR ELISA Kit

Overview

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| Quantity: | 96 tests |
| Target: | MTOR (mTOR) |
| Binding Specificity: | pSer2448 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Application: | ELISA |

Product Details

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| Purpose: | Human Phospho-mTOR (S2448) ELISA Kit. This assay semi-quantitatively measures phosphorylated mTOR (Ser2448) in lysate samples. |
| Sample Type: | Cell Lysate, Tissue Lysate |
| Analytical Method: | Semi-Quantitative |
| Detection Method: | Colorimetric |
| Specificity: | The antibody pair provided in this kit recognizes human mTOR phosphorylated at site Serine-2448. |
| Characteristics: | <ul style="list-style-type: none">• Rapidly measure phosphorylated protein in lysates• Screen numerous different cell lysates without performing a Western Blot analysis• Minimal hands-on time, convenient, and non-radioactive material |
| Components: | <ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer• Anti-Phospho Antibody |

Product Details

- HRP-Conjugated Secondary Antibody
- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

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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

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| Target: | MTOR (mTOR) |
| Alternative Name: | mTOR (mTOR Products) |
| Background: | Mechanistic Target Of Rapamycin (mTOR) serine/threonine kinase - phosphorylated at Ser2448 |
| 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

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| Sample Volume: | 100 µL |
| Plate: | Pre-coated |
| Protocol: | <ol style="list-style-type: none">1. Prepare all reagents and samples as instructed in the manual.2. Add 100 µL of sample or positive control to each well.3. Incubate 2.5 h at RT or O/N at 4 °C. |

Application Details

4. Add 100 µL of prepared primary antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.
7. Incubate 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:

Prepare all reagents and samples as instructed in the manual.

Add 100 µL of sample or positive control to each well.

Incubate 2.5 h at RT or O/N at 4 °C.

Add 100 µL of prepared primary antibody to each well.

Incubate 1 h at RT.

Add 100 µL of prepared 1X HRP-Streptavidin to each well.

Incubate 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:

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.

Expiry Date:

6 months