

[Go to Product page](#)

Datasheet for ABIN2748396

MTOR ELISA Kit

Overview

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

Product Details

Purpose:	Human Phospho-mTOR (S2448) and Total mTOR ELISA Kit. This assay semi-quantitatively measures phosphorylated mTOR (Ser2448) and Total mTOR 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 as well as total (pan) mTOR.
Characteristics:	<ul style="list-style-type: none">• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)• 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

Product Details

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

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 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:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)
Background:	Mechanistic Target Of Rapamycin (mTOR) serine/threonine kinase - phosphorylated at Ser2448 and total (pan) mTOR
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:	Pre-coated

Application Details

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.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:	<p>Prepare all reagents and samples as instructed in the manual.</p> <p>Add 100 µL of sample or positive control to each well.</p> <p>Incubate 2.5 h at RT or O/N at 4 °C.</p> <p>Add 100 µL of prepared primary antibody to each well.</p> <p>Incubate 1 h at RT.</p> <p>Add 100 µL of prepared 1X HRP-Streptavidin to each well.</p> <p>Incubate 1 h at RT.</p> <p>Add 100 µL of TMB One-Step Substrate Reagent to each well.</p> <p>Incubate 30 min at RT.</p> <p>Add 50 µL of Stop Solution to each well.</p> <p>Read at 450 nm immediately.</p>
------------------	--

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
--------------	----------
