



[Go to Product page](#)

Datasheet for ABIN2748625
RPS6KA1 ELISA Kit

Overview

Quantity: 96 tests

Target: RPS6KA1

Binding Specificity: pSer380

Reactivity: Human

Method Type: Cell ELISA

Application: ELISA

Product Details

Purpose: Cell-Based Human RSK1 (S380) 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 RSK1 phosphorylated at Serine-380 and total RSK1 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
-------------	---

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

Target Details

Target:	RPS6KA1
Alternative Name:	RSK1 (RPS6KA1 Products)
Background:	Ribosomal protein S6 kinase alpha-1, Ribosomal S6 kinase 1 (RSK1), 90 kDa ribosomal protein S6 kinase 1, MAP kinase-activated protein kinase 1a
Gene ID:	6195
UniProt:	Q15418
Pathways:	MAPK Signaling , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Sample Volume:	100 µL
Plate:	Uncoated
Protocol:	1. Seed 10,000-30,000 cells into each well and incubate overnight.

Application Details

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