Datasheet for ABIN2748498

RPS6KB1 ELISA Kit

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Overview

Quantity:	96 tests
Target:	RPS6KB1
Binding Specificity:	pSer424, pThr421, total
Reactivity:	Human, Mouse, Rat
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human/Mouse/Rat Phospho-P70S6K (T421/S424) and Total P70S6K ELISA Kit. This assay semi-quantitatively measures phophorylated P70S6K (Thr421/S424) and Total P70S6K 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, mouse, and rat p70S6 Kinase phosphorylated at sites Threonine-421 and/or Serine-424 as well as total (pan) p70S6 Kinase.
Characteristics:	• 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:	• Pre-Coated 96-well Strip Microplate

Product Details

	• Wash Buffer • 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:	RPS6KB1
Alternative Name:	P70S6K (RPS6KB1 Products)
Background:	P70S6 kinase (P70S6K) phosphorylated at T421 and/or S424 and total (pan) p70S6 kinase
Gene ID:	6198
UniProt:	P23443
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Regulation of Cell Size, Skeletal Muscle Fiber Development, Feeding Behaviour, G-protein mediated Events, Smooth Muscle Cell Migration, Interaction of EGFR with phospholipase C-gamma, Warburg Effect

Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual. 2. Add 100 µL of sample or positive control to each well.

Application Details

	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:	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