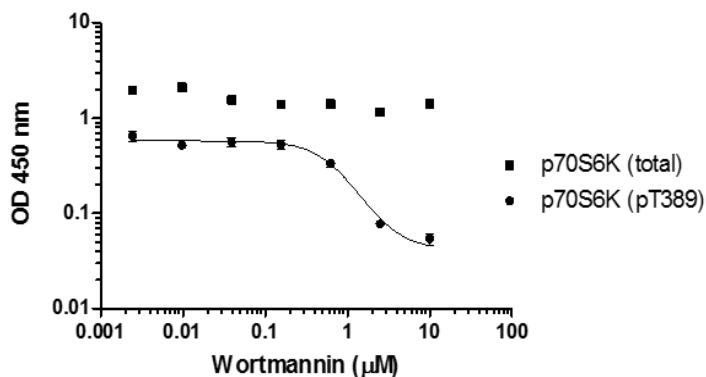


p70 S6K (Total/Phospho) InstantOne ELISA™ Kit

Catalog Number: 85-86053

Also known as: N/A

RUO: For Research Use Only. Not for use in diagnostic procedures.



Inhibition of p70S6K (pT389) phosphorylation in MCF-7 cells in response to wortmannin treatment. MCF-7 cells were cultured in 96-well tissue culture plates, and treated (2 h) with a dose-range of wortmannin before stimulation with insulin (10 μg/mL for 30 min) and cell lysis. Data from triplicate measurements of p70S6K (pT389) are plotted and compared against total p70S6K protein levels.

Product Information

Contents: p70 S6K (Total/Phospho)
InstantOne ELISA™



Catalog Number: 85-86053



Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The InstantOne ELISA™ is specifically engineered for accurate measurement of total and phosphorylated human and mouse p70 S6K in cell lysates. Detection of rat p70 S6K is expected. The InstantOne ELISA™ kit allows for fast analysis of samples in approximately one hour. All reagents used in a traditional sandwich ELISA are added in solution to a plate followed by a wash step and detection with the TMB colorimetric substrate.

p70 S6 Kinase (p70S6K) is a member of the ribosomal S6 kinase family of Ser/Thr kinases. p70 S6K activity is controlled by multiple signaling pathways, including the MAPK, phosphoinositide-3 kinase (PI3K), and mTOR pathways. This regulation results in the phosphorylation of multiple sites of p70 S6K, including Thr389 within the linker domain, which is required for full activation. Activated p70 S6K phosphorylates several residues on the S6 ribosomal protein, thereby leading to increased protein synthesis.

Components

This (Total/Phospho) kit includes sufficient reagents to perform 48 wells of the total and 48 wells of the phospho-specific detection for a total of 96 wells.

User Manual

phospho-p70 S6K (Thr389) Capture Antibody Reagent (Part No. IOPS6KCAR1M) - 1 x 1.5 mL
phospho-p70 S6K (Thr389) Detection Antibody Reagent (Part No. IOPS6KDAR1M) - 1 x 1.5 mL
p70 S6K (Total) Capture Antibody Reagent (Part No. IOS6KCAR1M) - 1 x 1.5 mL
p70 S6K (Total) Detection Antibody Reagent (Part No. IOS6KDAR1M) - 1 x 1.5 mL
InstantOne™ Assay Plate (Part No. IOAP96) - 96 well (sealed)
Cell Lysis Buffer (5X) (Part No. IOCLB1) - 10 mL
Enhancer Solution (Part No. IOES1) - 1 mL
Wash Buffer (10X) (Part No. IOWB1) - 15 mL
Detection Reagent (TMB Substrate) (Part No. IODR1) - 12 mL
Stop Solution (Part No. IOSS1) - 12 mL
Positive Control Cell Lysate (lyophilized) (Part No. IOS6KPC1) - 0.25 mL
Plate seal - 1 ea

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Applications Tested

This assay has been validated for the detection of total and phosphorylated human p70 S6K in stimulated MCF7 cell lysates. This assay was evaluated for specificity by immunoblot analysis using the same lysates and antibody.

Related Products

85-86051 p70 S6K (Total) InstantOne ELISA™

85-86052 phospho-p70 S6K (Thr389) InstantOne ELISA™

IOCLB InstantOne ELISA Cell Lysis Buffer (5X) – 100 mL

IOES InstantOne ELISA Enhancer Solution – 100 mL

IOWB InstantOne ELISA Wash Buffer (10X) – 500 mL