

Alpha SureFire® Ultra™ Multiplex

# Human and Mouse p-p70S6K (Thr389) + Total p70S6K Detection Kit

**Product number:** MPSU-PTP70-K500, MPSU-PTP70-K10K,  
MPSU-PTP70-K50K, MPSU-PTP70-K-HV



### Kit specificity:

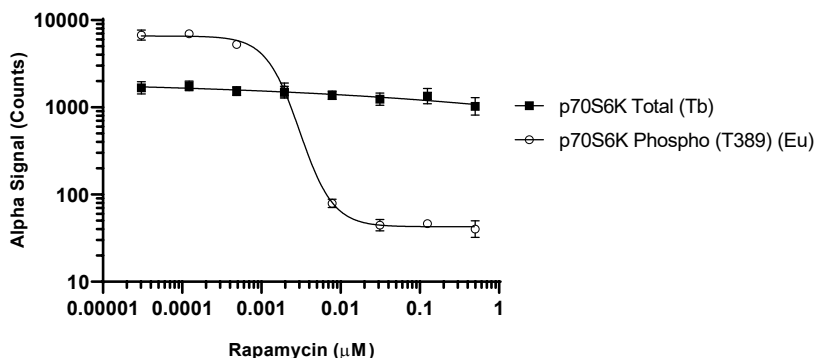
This assay kit contains antibodies which recognize the phospho-Thr389 epitope and a distal epitope on p70S6K, plus antibodies to detect Total p70S6K. The protein detected by this kit corresponds to UniProt ID P23443. p70S6K is also known as Ribosomal protein S6 kinase beta-1 and Serine/threonine-protein kinase 14A. These antibodies recognize p70S6K of human and mouse origin. Other species should be tested on a case-by-case basis.

### Control lysate information:

Positive Control Lysate: Prepared from MCF7 cells, cultured to confluence in T175 flasks in 10% FBS containing medium, treated with 500 µg/mL Insulin for 30 minutes and lysed with 20 mL of Lysis Buffer.

### Representative data

Data obtained with a 2-plate, 2 incubation protocol. MCF7 cells were seeded at 20K cells/well in a 96 well plate and incubated overnight. Cells were treated with Rapamycin at the indicated concentrations for 2 hours, then treated with 10 µg/mL Insulin for 30 minutes. Cells were lysed with Lysis Buffer and assayed for Phospho (Thr389) and Total p70S6K in the same wells of an assay plate using the *SureFire Ultra* Multiplex kit. Equivalent to approximately 2,000 cells/datapoint.



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