

## ELISAONE™ p70S6K Assays

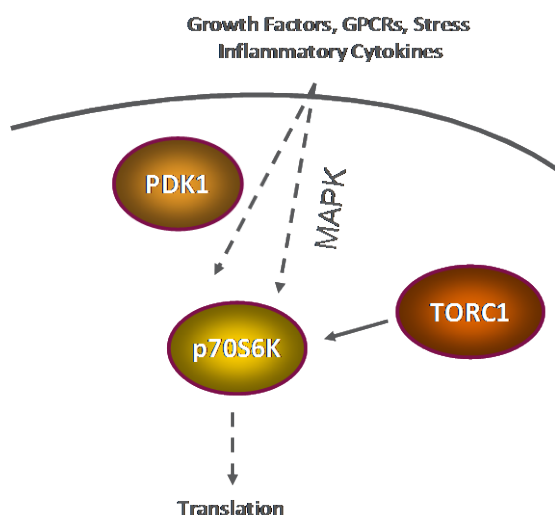
ELISAONE™ assay kits for analysis of cellular p70S6K (p-Thr389) phosphorylation and Total p70S6K

### ELISAONE™ Overview

ELISAONE assay kits are for the detection of cellular proteins. A whole new way of performing cellular assays, ELISAONE takes the hard work out of running a standard ELISA, while still giving the high quality results expected from a sandwich immunoassay. Fully self-contained kits are supplied in a convenient 96-well format. Simple to use and highly sensitive, ELISAONE kits are designed to get results, fast.

### ELISAONE™ phospho-p70S6K and Total p70S6K assays

p70S6K is a member of the ribosomal S6 kinase family of Ser/Thr kinases. p70S6K activity is controlled by multiple phosphorylation events, including phosphorylation of Thr389 in the linker domain, which is required for full activation. Activated p70S6K phosphorylates several residues on the S6 ribosomal protein, which ultimately leads to an increase in protein synthesis.



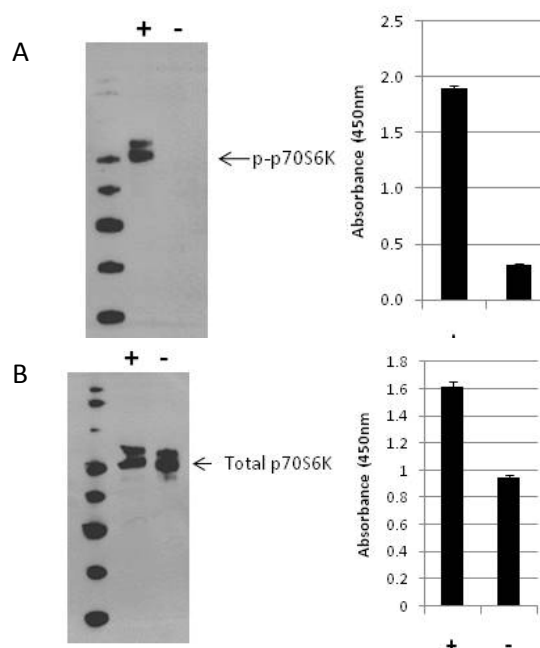
p70S6K is regulated through multiple pathways, including the MAPK pathway, the phosphoinositide-3 kinase (PI-3K) pathway, and the mTOR pathway.

### ELISAONE™ ERK assay technical specifications

#### Specificity:

TGR's ELISAONE p70S6K assay kits detect endogenous levels of p70S6K (GenBank Accession NP\_003152) in cellular lysates. Phospho-p70S6K assay kits detect p70S6K only when phosphorylated at Thr389. Total p70S6K assay kits detect p70S6K irrespective of phosphorylation status.

Using analysis by either Western blot or ELISAONE p70S6K assay kits, a significant reduction of p70S6K phosphorylation at Thr389 (A) is detected in MCF7 cells treated with a combination of UCN-01, wortmannin and rapamycin for 3 hours (-), compared with untreated cells (+), while only a small change in total p70S6K levels (B) was observed.



#### Species cross-reactivity:

Tested: Human, mouse; Expected: Rat  
Other species should be tested on a case-by-case basis.

QC: Phospho-p70S6K and Total-p70S6K assays are routinely tested against MCF7 cellular lysates. See certificate of analysis for Lot-specific information. Available at [www.tgrbio.com](http://www.tgrbio.com).

## Ordering Information

ELISAONE Assay Kits are available now from:

### **CEDARLANE (www.cedarlanelabs.com)**

**US:** 1-800-721-1644

**CANADA:** 1-800-268-5058

### **AXXORA (www.axxora.com)**

**US:** 1-858-550-8830

**Email:** axxora-usa@axxora.com

Product	Pack Size	Catalog
Phospho-p70S6K (T389)	96 assays	EOK010
Total p70S6K	96 assays	EOK020

## Complementary Products

ELISAONE™ assay kits are available for the following targets:

### *MAPK Signaling:*

ERK 1/2, p38 MAPK, JNK/SAPK

### *AKT Signaling:*

AKT 1/2/3, p70S6K

### *STAT Signaling:*

STAT3, STAT5

### *NF-κB Signaling:*

NF-κB p65, I-κBα

### *p53 Signaling:*

p53

### *Protein normalization:*

GAPDH

*Also available separately:*

Product	Pack Size	Catalog
ELISAONE™ 96-well strip-well microplates	1 plate	EPL001
	5 plates	EPL002
5X Lysis Buffer	100mL	EBF001
Enhancer Solution	100mL	EBF002
10X Wash Buffer	500mL	EBF003

Check our website ([www.tgrbio.com](http://www.tgrbio.com)) for the latest information on target availability.