

# ELISAONE™ Ribosomal Protein S6 Assays

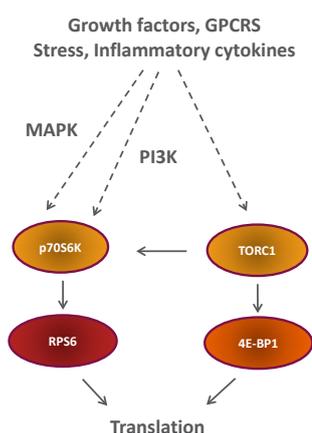
ELISAONE™ assay kits for analysis of cellular RPS6 (p-Ser240/244) phosphorylation

## 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-RPS6 and Total RPS6 assays

Ribosomes are structures, consisting of a 40S subunit and a 60S subunit, which catalyze protein synthesis. The 40S subunit binds to the mRNA, while the 60S subunit binds to tRNA and the amino acids to be incorporated into the polypeptide being synthesized. RPS6 (Ribosomal Protein S6) is a component of the 40S subunit. RPS6 is phosphorylated at multiple sites in its C-terminal region, which is correlated with an increase in translation of mRNA transcripts.



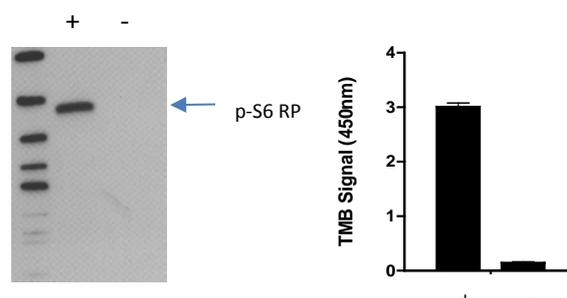
Phosphorylation is induced by many stimuli, including growth factors, and mitogens. RPS6 is thought contribute to the regulation of cell growth and proliferation through the selective translation of classes of mRNA involved in cell cycle progression and protein synthesis.

## ELISAONE™ RPS6 (p-Ser240/244) assay technical specifications

### Specificity:

TGR's ELISAONE RPS6 (p-Ser240/244) assay kits detect endogenous levels of RPS6 (GenBank Accession NP\_001001) in cellular lysates. Phospho-RPS6 assay kits only detect RPS6 when phosphorylated at Ser240/244. Total RPS6 assay kits detect RPS6 irrespective of phosphorylation status.

As shown, using the RPS6 assay kits or Western blot, RPS6 phosphorylation at Ser240/244 is detected in insulin-treated MCF7 cells (+), compared with MCF7 cells treated with a combination of rapamycin, UCN-01 and U0126 (-).



### Species cross-reactivity:

Tested: Human, Mouse

Expected: Rat

Other species should be tested on a case-by-case basis.

### QC:

Phospho-RPS6 and total RPS6 assays are routinely tested against inhibitor-treated MCF7 cellular lysates. See certificate of analysis for Lot-specific information. Available at [www.tgrbio.com](http://www.tgrbio.com).

## Ordering Information

ELISA<sup>ONE</sup> 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- RPS6 (S240/244)	96 assays	EOK042

## Complementary Products

ELISA<sup>ONE</sup><sup>™</sup> assay kits are available for the following targets:

*MAPK Signaling:*

ERK 1/2, p38 MAPK, JNK/SAPK, c-JUN

*AKT Signaling:*

AKT 1/2/3 (p-Thr308), AKT 1/2/3 (p-Ser473), p70S6K, ribosomal protein S6, GSK3 $\beta$ , BAD

*STAT Signaling:*

STAT1, STAT3, STAT5

*NF- $\kappa$ B Signaling:*

NF- $\kappa$ B p65, I- $\kappa$ B $\alpha$ , IKK $\alpha$

*p53 Signaling:*

p53

*Wnt Signaling:*

$\beta$ -Catenin, GSK3 $\beta$

*TGF $\beta$  Signaling:*

SMAD1, SMAD3

*Protein normalization:*

GAPDH

Also available separately:

Product	Pack Size	Catalog
ELISA <sup>ONE</sup> <sup>™</sup> 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.