Phospho-S6-Ribosomal Protein (Ser240/244) (CD10) rabbit mAb

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Catalog: #2371 **Store at:** -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

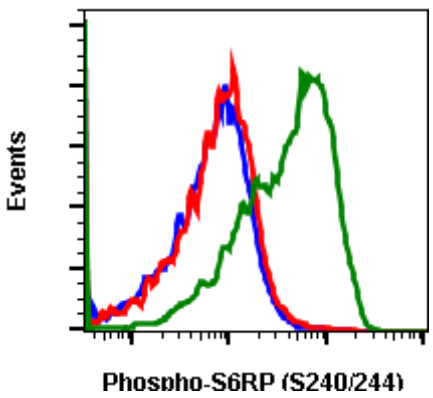
Reactivity: Human,Mouse

Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

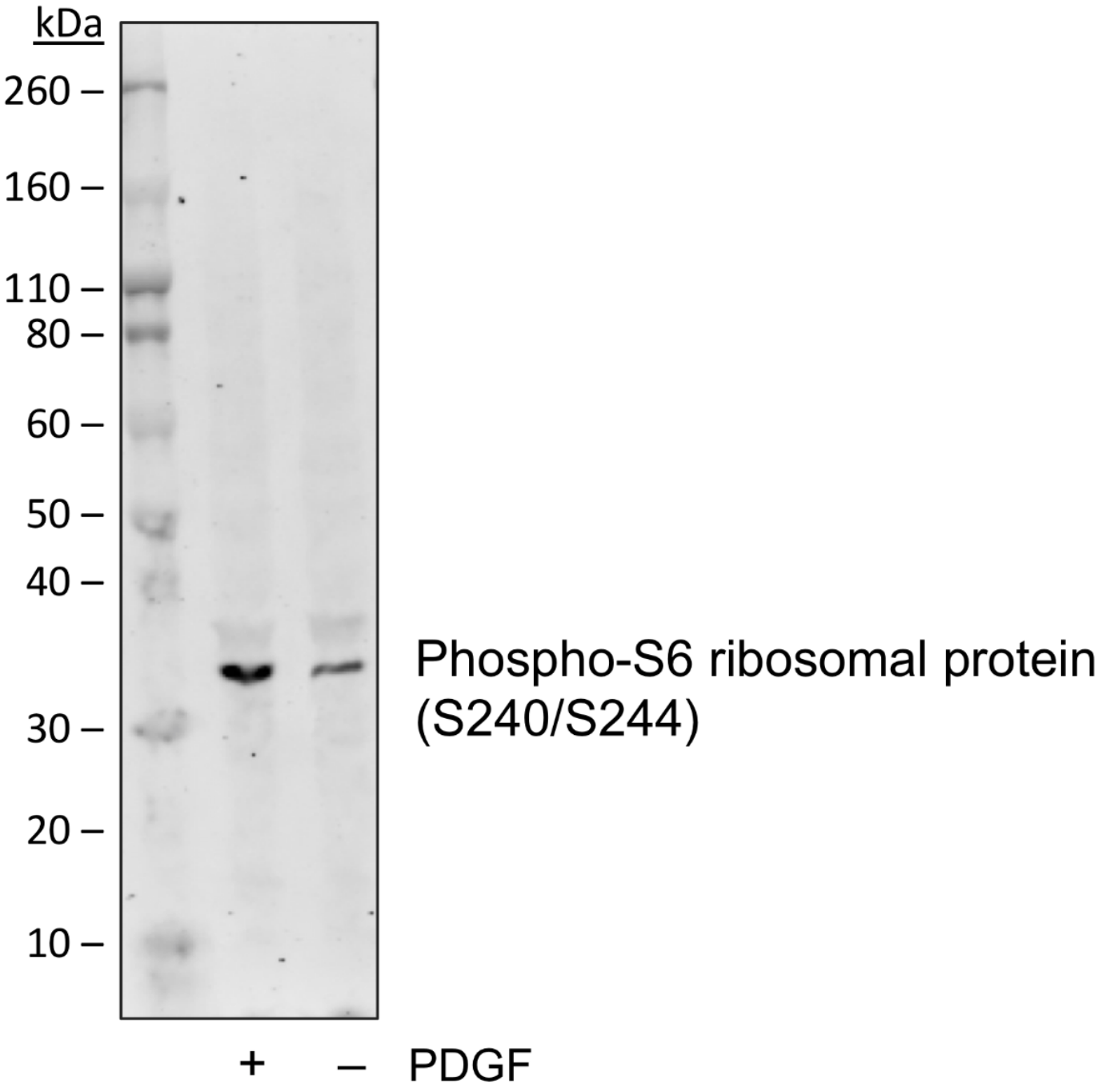
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser240/244 of human phospho S6 Ribosomal protein

Description: Ribosomal protein S6 kinase is one of two parallel signaling pathways downstream of mTOR, with the other being 4E-BP1. mTOR phosphorylates and activates S6 kinase, which then phosphorylates ribosomal protein S6. The pathway regulates cell growth and cell cycle progression. The identified phosphorylation sites of S6 are Ser235, Ser236, Ser240, Ser244, and Ser247, which are evolutionarily conserved in higher eukaryotes. Ser236 has been proposed as the primary phosphorylation site. Studies using S6 knockin mice, where all five phosphorylation site serine residues are replaced by alanine, have provided extensive detail on S6 function. These studies support the role phosphorylated S6 plays in regulation of cell size, glucose homeostasis, and protein synthesis.

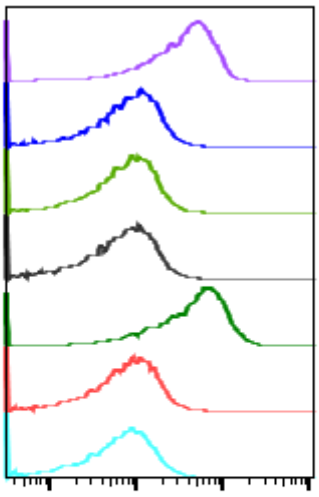
References: Ruvinsky I and Meyuhas O. (2006) TRENDS in Biochemical Sciences. 31: 342-348.



Flow cytometric analysis of K562 cells, unstained untreated cells as negative control (blue) or stained untreated (red) or treated with EGF A (green) using Phospho-S6 ribosomal protein (Ser240/Ser244) antibody S6S240S244-CD10 at 0.1 ug/mL Cat. #2371.

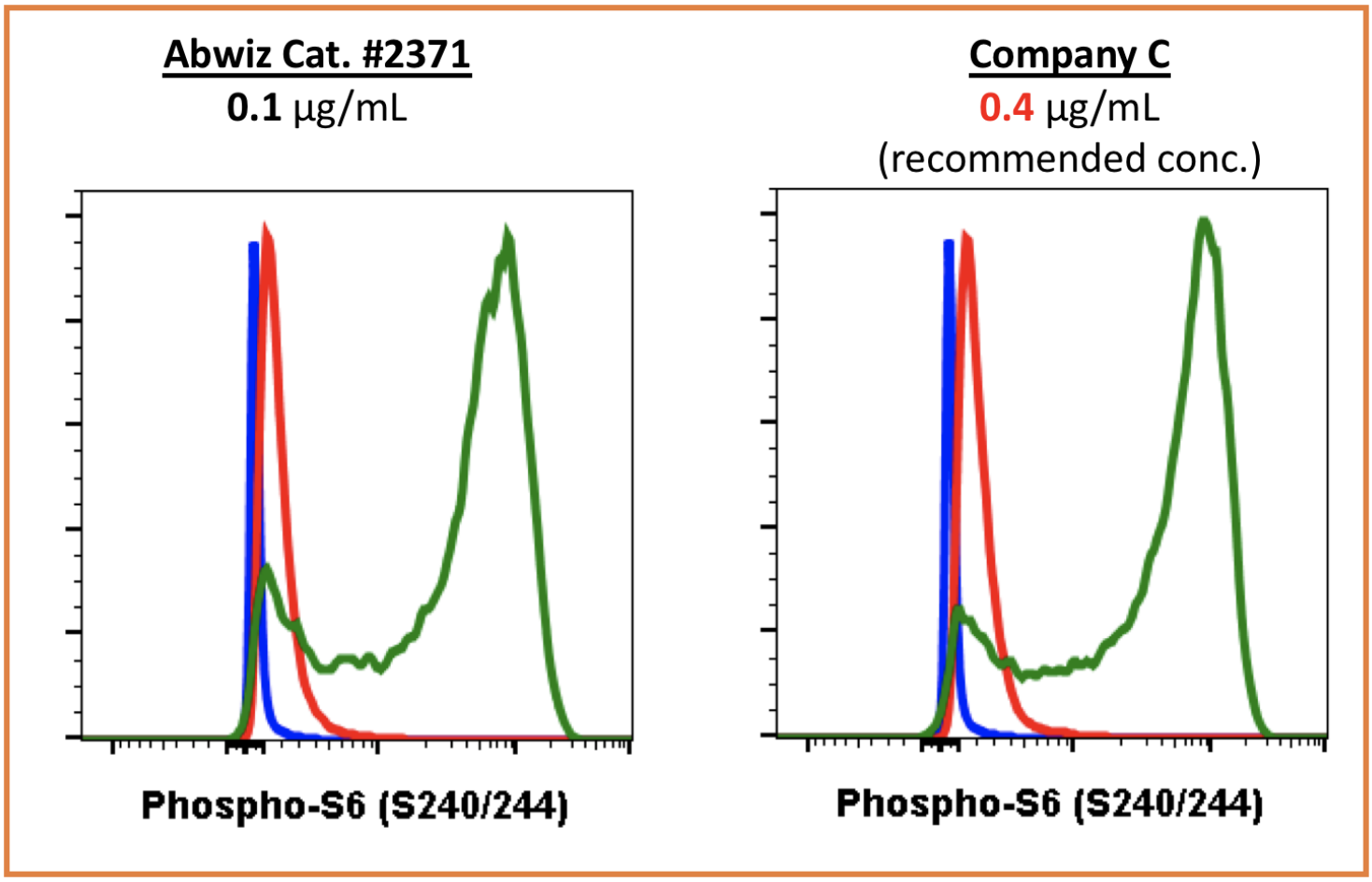


Western blot analysis of NIH3T3 cells untreated or treated with PDGF using S6-Ribosomal Protein (S240/244) antibody S6RPS240/S244-CD10 at 10 ng/mL, Cat# 2371



	$WELLID	Treatment	Median : BL1-A
	BD6 0.1 NP	EGF	371
	BD6 0.1 NP	CTRL	59.9
	BD6 0.1 PP	EGF	51.0
	BD6 0.1 PP	CTRL	38.0
	BD6 0.1	EGF	485
	BD6 0.1	CTRL	52.9
	2'AB	CTRL	38.0

Flow cytometric analysis of K562 cells, unstained untreated cells as negative control (light blue) or stained untreated (red) or treated with EGF (green) or stained untreated and blocked with non-phosphophopetide (blue) or phosphor-peptide (black) or stained treated and blocked with non-phospho-petide (violet) or treated and blocked with phosphor-peptide (light green) using Phospho-S6 ribosomal protein (Ser240/Ser244) antibody S6S240S244-CD10 at 0.1 ug/mL Cat. #2371.



Flow cytometric analysis of K562 cells secondary antibody only negative control (blue) or untreated (red) or treated with EGF + pervanadate (green) using 0.1ug/mL Phospho-S6 ribosomal protein (Ser240/244) antibody S6S240S244-CD10 (Abwiz Cat. #2371) or Company C antibody at 0.4ug/mL (manufacturer's recommended concentration).