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12-4039: Phospho-S6 Ribosomal Protein (Ser235/236) (Clone: R3A2) rabbit mAb APC conjugate

Clonality :	Monoclonal
Clone Name :	S6S235S236-R3A2
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	APC
Format :	Conjugated
Alternative Name :	40S ribosomal protein S6, Phosphoprotein NP33, Small ribosomal subunit protein eS6, RPS6
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Ser235/236 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.

Product Info

Amount :	10 Tests / 100 Tests
Content :	1X PBS, 0.09% NaN3, 0.2% BSA
Storage condition :	Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 ÃÂµL per million cells or 5 ÃÂµL per 100 ÃÂµL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

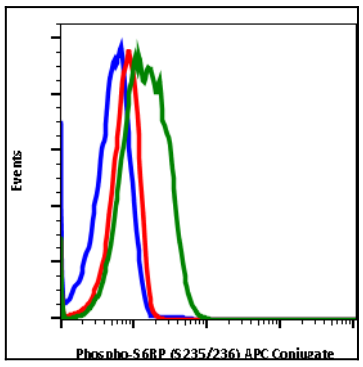

Fig-1: Flow cytometric analysis of U937 cells unstained U0126 and SB20350 cells (blue) or stained and treated with U0126 plus SB20350 (red) or treated with TPA plus calyculin A (green) using phospho-S6 ribosomal protein (Ser235/Ser236) antibody S6S235S236-R3A2 APC conjugate.

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