Phospho-S6 Ribosomal Protein (Ser235/236) (R3A2) rabbit mAb SureLight®488 conjugate

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Catalog: #1195

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: SureLight 488

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

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

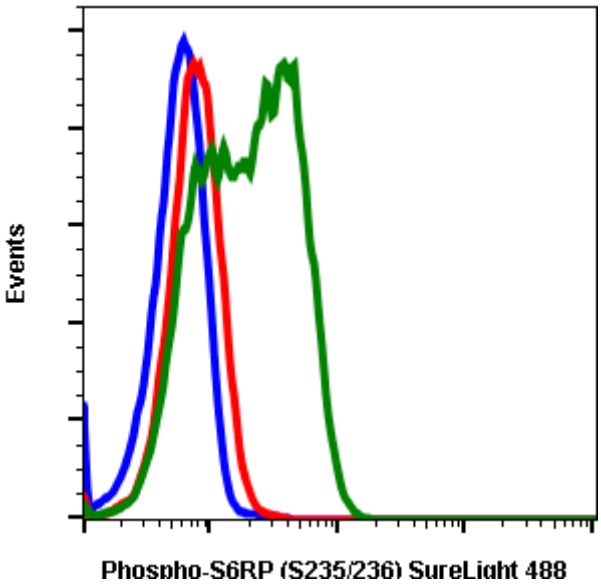
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

Immunogen: 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.

References:

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



Flow cytometric analysis of U937 cells unstained U0126 plus 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 SureLight®488 conjugate. Cat. #1195.