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

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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: PE

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. See product image legends for additional information.

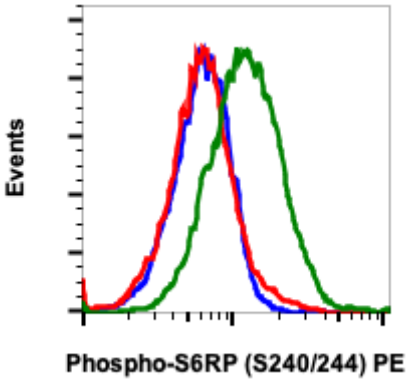
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser240/244 of human phospho S6 Ribosomal protein

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.

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Flow cytometric analysis of K562 cells untreated and stained as negative control (blue) or untreated (red) or treated with EGF (green) using Phospho-S6 ribosomal protein (Ser240/Ser244) antibody S6S240S244-CD10 PE conjugate Cat. #23712

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