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12-4296: Phospho-mTOR (Ser2448) (Clone: E11) rabbit mAb PE Conjugate

Clonality :	Monoclonal
Clone Name :	mTORS2448-E11
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Alternative Name :	Serine/threonine-protein kinase mTOR, FK506-binding protein 12-rapamycin complex-associated protein 1, FKBP12-rapamycin complex-associated protein, Mammalian target of rapamycin, Mechanistic target of rapamycin, Rapamycin and FKBP12 target 1, Rapamycin target protein 1, FRAP, FRAP1, FRAP2, RAFT1, RAPT1
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Ser2448 of human phospho mTOR

Description

mTOR, mammalian target of rapamycin, is a Serine/Threonine protein kinase (1-2) that functions as an amino acid and ATP sensor to balance cell growth and nutrient availability (3-4). When sufficient nutrients are available, mTOR transmits a positive signal to p70 S6 kinase and participates in the inactivation of 4E-BP1 (5). mTOR plays a key role in homeostasis and cell growth, and phospho mTOR may be abnormally regulated in tumors. mTOR is a potential target for anti-cancer therapy (6).

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 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.

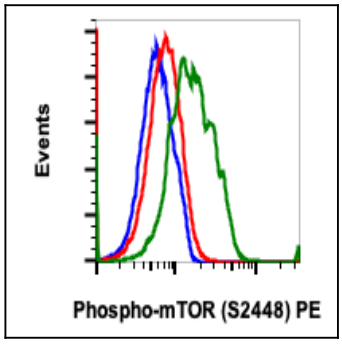

Fig-1: Flow cytometric analysis of A431 cells treated with phosphatase and unstained as negative control (blue) or treated with phosphatase (red) or EGF (green) and stained using Phospho-mTOR (Ser2448) PE conjugated antibody mTORS2448-E11.