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## 12-4295: Phospho-mTOR (Ser2448) (Clone: E11) rabbit mAb

Clonality: Monoclonal
Clone Name: mTORS2448-E11

Application: FACS
Reactivity: Human
Conjugate: Unconjugated
Format: Purified

Serine/threonine-protein kinase mTOR, FK506-binding protein 12-rapamycin complex-

**Alternative Name :** associated protein 1, FKBP12-rapamycin complex-associated protein, Mammalian 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 :** 20 μl / 200 μl

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

**Storage condition :** Store at -20°C. Avoid repeated freeze and thaw cycles.

## **Application Note**

 $1\mu g/mL - 0.001\mu g/mL$ . It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

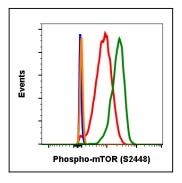


Fig-1: Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.01  $\mu$ g/mL of isotype control (orange) or untreated (red) or treated with PDGF (green) using Phospho-mTOR (Ser2448) antibody mTORS2448-E11 at 0.01  $\mu$ g/mL.