

Rabbit Anti- Phospho-mTOR (Ser2481), AF680 conjugated

Cat. Number: bs-3495R-AF680

Quantity size: 100ul

Concentration: 1mg/ml. Buffer = 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Background: mTOR is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289-kDa protein (symbolized RAFT1) with significant homology to the Saccharomyces cerevisiae protein TOR1 and has been shown to associate with the immunophilin FKBP12 in a rapamycin dependent fashion. The FKBP12-rapamycin complex is known to inhibit progression through the G1 cell cycle stage by interfering with mitogenic signaling pathways involved in G1 progression in several cell types, as well as in yeast. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.

Specificity:

- Rabbit Polyclonal IgG, affinity purified by Protein A.
- Reacts with: Human, Mouse, Rat (predicted: Dog, Pig, Horse, Rabbit, Sheep)
- Immunogen: KLH conjugated Synthesised phosphopeptide derived from human mTOR around the phosphorylation site of Ser2481: IH(p-S)FI

Application:

- Immunofluorescence: 1:20-200
- Excitation spectrum: 679nm
- Emission spectrum: 702nm
- Optimal working dilutions must be determined by the end user.
- Protect from light.

Storage: Shipped at 4°C, Store at -20°C (Avoid repeated freeze/thaw cycles).

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.