www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

Phospho-MTOR-S2448

Reactivity: Human

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding serine 2448 of human mTOR/FRAP

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

cfor

Synonym:

MTOR;FLJ44809;FRAP;FRAP1;FRAP2;RAFT1;RAPT1;

Catalog #:AP0094

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:2475

Isotype: IgG

Swiss Prot:P42345

Purity: Affinity purification

For research use only.

Background:

The mammalian target of rapamycin (mTOR, FRAP, RAFT) is a Ser/Thr protein kinase (1-3) that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth (4,5). When sufficient nutrients are available, mTOR responds to a phosphatidic acid-mediated signal to transmit a positive signal to p70 S6 kinase and participate in the inactivation of the eIF4E inhibitor, 4E-BP1 (6). These events result in the translation of specific mRNA subpopulations. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481 (7,8). mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors. For these reasons, mTOR is currently under investigation as a potential target for anti-cancer therapy (9).

To place an order, please Click HERE.

© 2015 NeoScientific

Copyrights @ 2013 NEO Group 245 First Street, 18th Floor, Cambridge MA 02142 888.754.5670 (toll-free)

Request a CATALOG CLICK HERE