

# Phospho-MTOR (S2481) Recombinant Antibody



RACO0110

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## Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Human

**Isotype:**

Rabbit IgG

**Applications:**

ELISA, WB, IF

**Recommended dilutions:**

WB:1:500-1:5000, IF:1:20-1:200

**Protein Background:**

Serine/threonine protein kinase which is a central regulator of cellular metabolism, growth and survival in response to hormones, growth factors, nutrients, energy and stress signals. MTOR directly or indirectly regulates the phosphorylation of at least 800 proteins. Functions as part of 2 structurally and functionally distinct signaling complexes mTORC1 and mTORC2 (mTOR complex 1 and 2). Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. This includes phosphorylation of EIF4EBP1 and release of its inhibition toward the elongation initiation factor 4E (eIF4E). Moreover, phosphorylates and activates RPS6KB1 and RPS6KB2 that promote protein synthesis by modulating the activity of their downstream targets including ribosomal protein S6, eukaryotic translation initiation factor EIF4B, and the inhibitor of translation initiation PDCC4.

**Gene ID:**

MTOR

**Uniprot**

P42345

**Synonyms:**

Serine/threonine-protein kinase mTOR, FK506-binding protein 12-rapamycin complex-associated protein 1, FKBP12-rapamycin complex-associated protein, Mammalian target of rapamycin, mTOR, Mechanistic target of rapamycin, Rapamycin and FKBP12 target 1, Rapamycin target protein 1, MTOR, FRAP, FRAP1, FRAP2, RAFT1, RAPT1

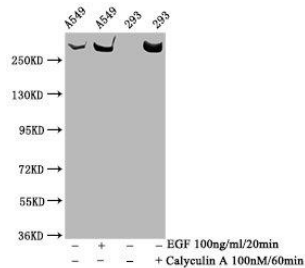
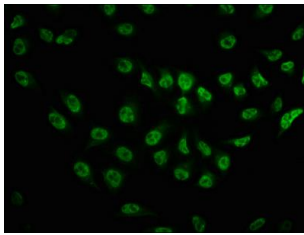
**Immunogen:**

A synthesized peptide derived from human Phospho-MTOR (S2481).

**Storage:**

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

## Product Images



Immunofluorescence staining of HeLa cells with RACO0110 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

### Western Blot

Positive WB detected in(A549 whole cell lysate) 293 whole cell lysate) (treated with Calyculin A or EGF)

All lanes: Phospho-MTOR antibody at 1. (3µg/ml)

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 289 KDa

Observed band size: 289 KDa