

Phospho-RPS6KB1 (T421+S424) Recombinant Antibody

RACO0059



Product Information

Size:

50ul

Reactivity:

Human

Source:

Human

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IF, IP

Recommended dilutions:

WB:1:500-1:5000, IF:1:20-1:200, IP:1:200-1:1000

Protein Background:

Serine/threonine-protein kinase that acts downstream of mTOR signaling in response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycle progression. Regulates protein synthesis through phosphorylation of EIF4B, RPS6 and EEF2K, and contributes to cell survival by repressing the pro-apoptotic function of BAD. Under conditions of nutrient depletion, the inactive form associates with the EIF3 translation initiation complex. Upon mitogenic stimulation, phosphorylation by the mammalian target of rapamycin complex 1 (mTORC1) leads to dissociation from the EIF3 complex and activation. The active form then phosphorylates and activates several substrates in the pre-initiation complex, including the EIF2B complex and the cap-binding complex component EIF4B.

Gene ID:

RPS6KB1

Uniprot

P23443

Synonyms:

Ribosomal protein S6 kinase beta-1, 70 kDa ribosomal protein S6 kinase 1, P70S6K1, p70-S6K 1, Ribosomal protein S6 kinase I, Serine/threonine-protein kinase 14A, p70 ribosomal S6 kinase alpha, p70 S6 kinase alpha, p70 S6K-alpha, p70 S6KA, RPS6KB1, STK14A

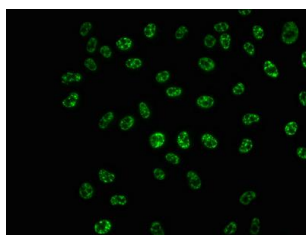
Immunogen:

A synthesized peptide derived from human Phospho-RPS6KB1 (T421+S424).

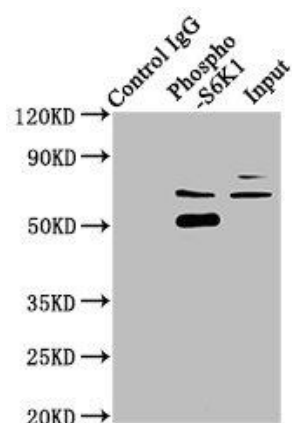
Storage:

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

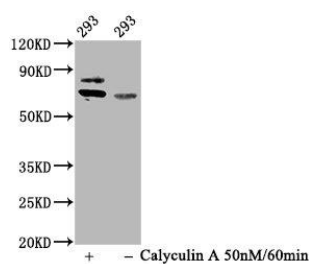
Product Images



Immunofluorescence staining of HeLa cells with RACO0059 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).



Immunoprecipitating Phospho-RPS6KB1 in HeLa whole cell lysate) Lane 1: Rabbit control IgG(1µg) instead of RACO0059 in HeLa whole cell lysate) For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: RACO0059(3µg) + HeLa whole cell lysate (1mg)
Lane 3: HeLa whole cell lysate) (20µg)



Western Blot

Positive WB detected in(293 whole cell lysate) (treated with Calyculin A or not)

All lanes: Phospho-RPS6KB1 antibody at 0. (3µg/ml)

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 70 KDa

Observed band size: 70 KDa