For Research Use Only

Phospho-S6 Ribosomal protein (Ser240/244) Recombinant antibody

Catalog Number:80575-3-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
80575-3-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC000524

GeneID (NCBI):
6194

UNIPROT ID:
P62753

Full Name:
ribosomal protein S6

Calculated MW:
29 kDa

Observed MW:
32 kDa

Purification Method:
Protein A purfication

CloneNo.:
242048C2

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : 20% fetal bovine serum after serum free NIH/3T3 cells, 10% fetal bovine serum after serum free HEK-293 cells, 20% fetal bovine serum after serum free PC-12 cells

Background Information

Ribosomal protein S6 (RPS6) is one of the components of the 40S ribosomal subunit. RPS6 has been functionally regarded as the stimulator and/or inhibitor of certain types of mRNA translation, as well as the regulator of cellular metabolisms, cells size, survival and proliferation. RPS6 is phosphorylated at multiple sites, comprised between Ser235 and Ser247, by the p70 rpS6 kinase (S6K) 1, which is a major downstream effector of the mammalian target of rapamycin complex 1 (mTORC1). Phosphorylation of RPS6 at the dual site Ser235/236 occurs also independently of mTORC1, via the p90 ribosomal S6 kinases (RSK), which are activated by the extracellular signal-regulated kinases (ERK). Recent studies performed in pancreatic β-cells identified PKA as an additional RPS6 kinase, specifically involved in the phosphorylation of Ser235/236. (PMID: 26490682, PMID: 21814187, PMID: 31112404)

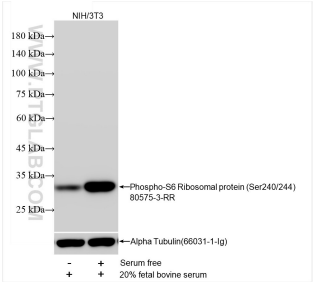
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

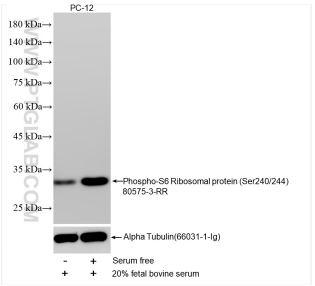
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

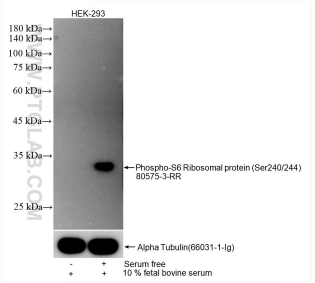
Selected Validation Data



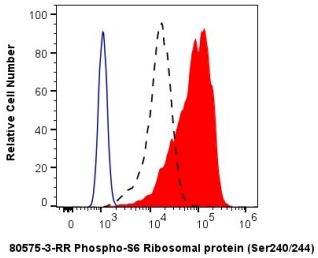
NIH/3T3 cells treated with 20% fetal bovine serum after serum free were subjected to SDS PAGE followed by western blot with 80575-3-RR (Phospho-S6 Ribosomal protein (Ser240/244) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubuliin (66031-1-Ig) antibody as loading control.



PC-12 cells treated with 20% fetal bovine serum after serum free were subjected to SDS PAGE followed by western blot with 80575-3-RR (Phospho-S6 Ribosomal protein (Ser240/244) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubuliin (66031-1-Ig) antibody as loading control.



HEK-293 cells treated with 10% fetal bovine serum after serum free were subjected to SDS PAGE followed by western blot with 80575-3-RR (Phospho-S6 Ribosomal protein (Ser240/244) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubuliin (66031-1-Ig) antibody as loading control.



1X10^6 HEK-293 cells untreated (dashed lines) or treated with serum-starved overnight and 10% fetal bovine serum which intracellularly stained with 0.06 ug Phospho-S6 Ribosomal protein (Ser240/244) Recombinant antibody (80575-3-RR, Clone:242048C2) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4%