For Research Use Only

Phospho-S6 Ribosomal protein (Ser236) Recombinant antibody

Catalog Number:80206-1-RR 1 Publications

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Basic Information

Catalog Number:
80206-1-RR

Size:
100ul , Concentration: 250 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 purification

CloneNo.:
7K17

Recommended Dilutions:
WB: 1:2000-1:10000
FC (Intra): 0.50 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
mouse

Positive Controls:

WB : HEK-293 cells, MCF-7 cells, Calyculin A treated HEK-293 cells, IGF-1 treated MCF-7 cells

FC (Intra) : Calyculin A treated HEK-293 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). 80206-1-RR specifically recognizes the phosphorylation site of Ser236 or dual site Ser235/236.

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Li	39702426	NPJ Biofilms Microbiomes	WB

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
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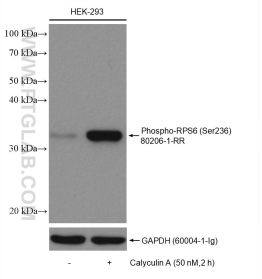
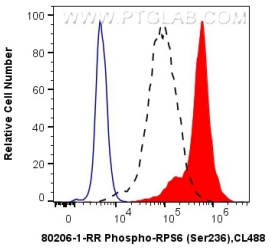
Selected Validation Data



Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80206-1-RR (Phospho-S6 Ribosomal protein (Ser236) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-S6 Ribosomal protein (Ser236) (80206-1-RR, Clone:7K17) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.