

For Research Use Only

Phospho-S6 Ribosomal protein (Ser235) Monoclonal antibody

Catalog Number: 67898-1-Ig **3 Publications**



Basic Information

Catalog Number: 67898-1-Ig	GenBank Accession Number: BC000524	Purification Method: Protein A purification
Size: 100ul, Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 6194	CloneNo.: 2A4B6
Source: Mouse	UNIPROT ID: P62753	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:1000-1:4000
Isotype: IgG2b	Full Name: ribosomal protein S6	
	Calculated MW: 29 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, Calyculin A treated HeLa cells, Calyculin A treated HEK-293 cells, IGF-1 treated MCF-7 cells, Calyculin A treated NIH/3T3 cells
Cited Applications: WB	IF/ICC : 100 nM Calyculin A (30 minutes) treated HeLa cells,
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

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). 67898-1-Ig specifically recognizes the phosphorylation site of Ser235 or dual site Ser235/236.

Notable Publications

Author	Pubmed ID	Journal	Application
Yu Tao	31908053	FASEBJ	WB
Evangelia Lekka	36572670	Nat Commun	WB
Joao Paulo Cavalcanti de Albuquerque	40184437	Sci Immunol	WB

Storage

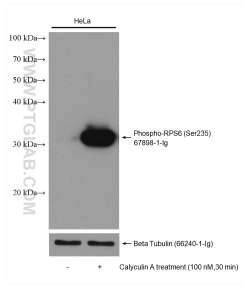
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

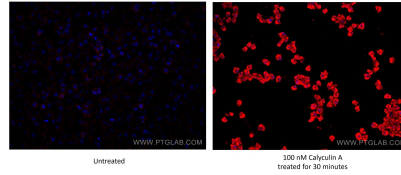
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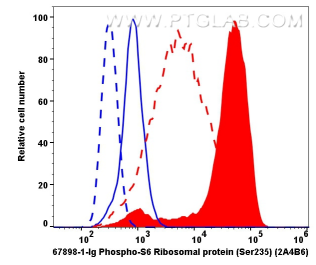
Selected Validation Data



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 67898-1-Ig (Phospho-S6 Ribosomal protein (Ser235) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with beta tubulin antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed untreated and 100 nM Calyculin A (30 minutes) treated HeLa cells using Phospho-S6 Ribosomal protein (Ser235) antibody (67898-1-Ig, Clone: 2A4B6) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1×10^6 untreated HeLa cells (dash lines) and 100 nM Calyculin A (30 minutes) treated HeLa cells (full lines) were intracellularly stained with 0.2 μ g Phospho-S6 Ribosomal protein (Ser235) Monoclonal antibody (67898-1-Ig, Clone: 2A4B6, red) and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005). Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4, blue) was parallel stained as

