

For Research Use Only



Phospho-S6 Ribosomal protein (Ser235) Monoclonal antibody, PBS Only

Catalog Number: 67898-1-PBS

Basic Information

Catalog Number: 67898-1-PBS	GenBank Accession Number: BC000524	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 6194	CloneNo.: 2A4B6
Source: Mouse	UNIPROT ID: P62753	
Isotype: IgG2b	Full Name: ribosomal protein S6	
	Calculated MW: 29 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat

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.

Storage

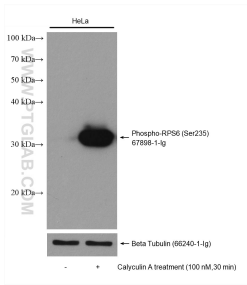
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

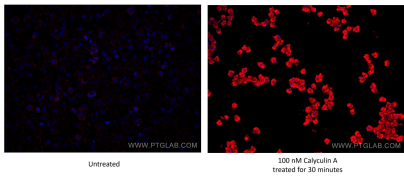
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

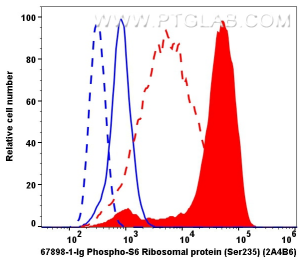
Selected Validation Data



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. This data was developed using the same antibody clone with 67898-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67898-1-PBS in a different storage buffer formulation.



1x10⁶ untreated HeLa cells (dash lines) and 100 nM Calyculin A (30 minutes) treated HeLa cells (full lines) were intracellularly stained with 0.2 µg 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 control. Cells were fixed