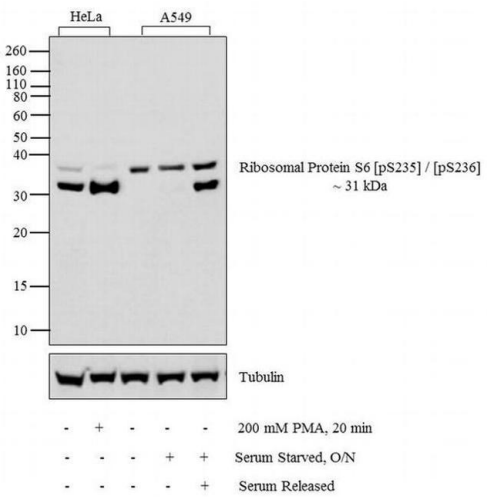
Phospho-S6 (Ser235, Ser236) Polyclonal Antibody

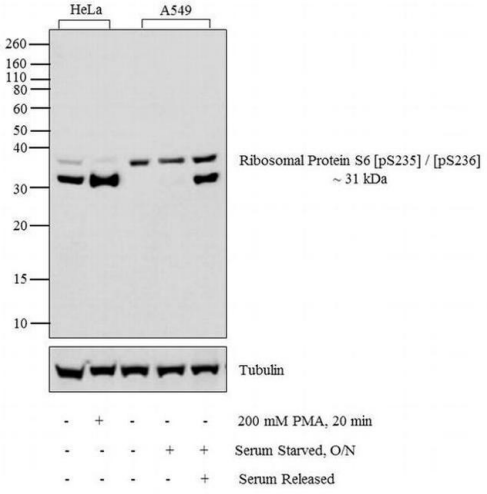
Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human RPS6 that contains serines 235 and 236. The sequence is conserved in mouse and rat.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533797

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication

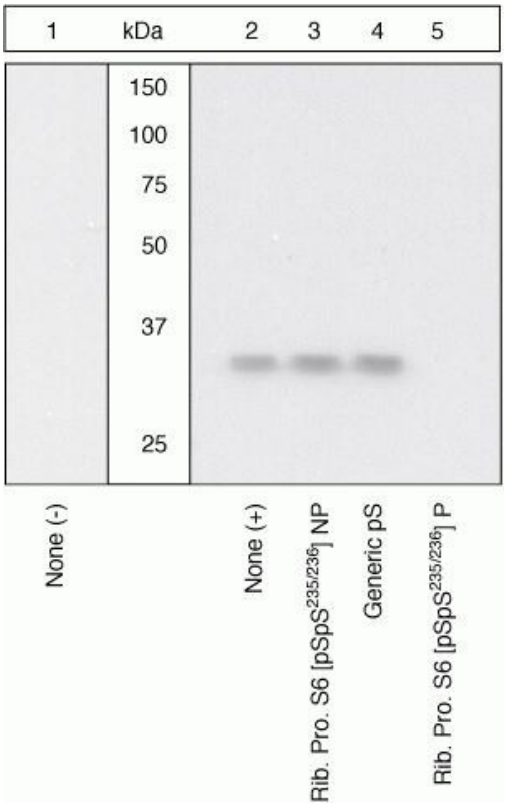
Product Images For Phospho-S6 (Ser235, Ser236) Polyclonal Antibody



Phospho-S6 (Ser235, Ser236) Antibody (44-922G) in WB
Western blot analysis was performed on whole cell extracts (20 µg lysate) of HeLa (Lane 1), HeLa treated for 20 minutes with 200 nM of PMA (Lane 2), A549 (lane 3), Serum Starved A549 (lane 4) and A549 Serum Starved for overnight followed by Serum Released (lane 5). The blots were probed with Anti-Ribosomal Protein S6 (pS235)/(pS236) Rabbit Polyclonal Antibody (Product # 44-922G, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 31 kDa band corresponding to Ribosomal Protein S6 (Ser235/Ser236) were observed across PMA treated and Serum Starved followed by Serum Released cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Phospho-S6 (Ser235, Ser236) Antibody (44-922G)
Altered expression of protein upon cell treatment demonstrates antibody specificity. Western blot of ribosomal protein S6 (pS235, pS236) using Anti - S6 (pS235, pS236) Rabbit Polyclonal Antibody (Product # 44-922G) shows increased expression of S6 [pS235, pS236] in HeLa cells upon PMA treatment and A549 cells that were serum starved followed by serum release. {TM}



Phospho-S6 (Ser235, Ser236) Antibody (44-922G) in WB
Peptide Competition. Lysates prepared from HeLa cells left untreated (1) or treated with anisomycin (2-5). were resolved by SDS-PAGE on a 14% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer for one hour at room temperature, and incubated with ribosomal protein S6 (pSpS235/236) antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the immunogen (3), a generic phosphoserine-containing peptide (4), or, the phosphopeptide immunogen (5). After washing, membranes were incubated with goat F (ab')2 anti-rabbit IgG HRP conjugate (Product # ALI4404) and bands were detected using the Pierce SuperSignal™ method. The data show that only the peptide corresponding to ribosomal protein S6 (pSpS235/236) blocks the signal, verifying the specificity of the antibody.

1 Reference

Western Blot (1)

Autophagy

Stimulation of autophagy by rapamycin protects neurons from remote degeneration after acute focal brain damage.

"44-922G was used in western blot to investigate the role of autophagy in acute brain damage."

Authors: Viscomi MT,D'Amelio M,Cavallucci V,Latini L,Bisicchia E,Nazio F,Fanelli F,Maccarrone M,Moreno S,Cecconi F, Molinari M

Year
2012

Species
Mouse

Dilution
1:1000