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Anti-p70 S6 Kinase (Ab-411) RPS6KB1 Antibody

Catalog Number: A01475-1

About RPS6KB1

Phosphorylates specifically ribosomal protein S6 in response to insulin or several classes of mitogens. Promotes protein synthesis by phosphorylating PDCD4 at 'Ser-67' and targeting it for degradation.

Satoru Eguchi et al. (1999) J Biol Chem, Vol. 274: 36843-36851
Papst PJ, et al. (1998) J Biol Chem. 273(24):15077-84.
Ulrike Krause et al. (2002) Eur. J. Biochem. 269: 3751-3759 c
Le, X.F, et al. (2003) Oncogene 22: 484

Overview

Product Name	Anti-p70 S6 Kinase (Ab-411) RPS6KB1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-p70 S6 Kinase (Ab-411) RPS6KB1 Antibody (Catalog # A01475-1). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal 3B5
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P23443

Technical Details

Immunogen	Peptide sequence around aa. 409~413 (I-R-S-P-R) derived from Human p70 S6 Kinase.
Predicted Reactive Species	Bovine, Canine
Form	Liquid
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Predicted MW: 70 85 kd Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100 Immunofluorescence: 1:100~1:200

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Anti-p70 S6 Kinase (Ab-411) RPS6KB1 Antibody (A01475-1) Images

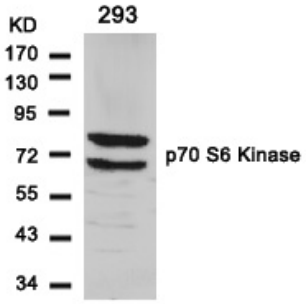
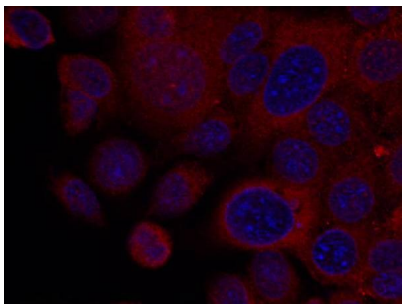


Figure 1. Western blot analysis of RPS6KB1 using anti-RPS6KB1 antibody (A01475-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RPS6KB1 antigen affinity purified polyclonal antibody (Catalog # A01475-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for RPS6KB1.



Immunofluorescence staining of methanol-fixed MCF7 cells using p70 S6 Kinase(Ab-411) Antibody #A01475-1.

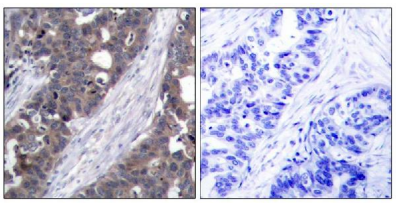


Figure 2. IHC analysis of RPS6KB1 using anti-RPS6KB1 antibody (A01475-1).
RPS6KB1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RPS6KB1 Antibody (A01475-1) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.