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Datasheet for 600-401-942

p70 S6 Kinase Antibody

Overview

Description:	Anti-p70 S6 Kinase (RABBIT) Antibody - 600-401-942
Item No.:	600-401-942
Size:	100 µg
Applications:	ELISA, IP, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	The protein p70 S6 kinase is critical for cell cycle progression and cell survival. In response to mitogen stimulation, p70 S6 kinase activation up-regulates ribosomal biosynthesis and enhances the translational capacity. p70S6K phosphorylates the S6 protein of the 40S subunit of the ribosome. This kinase was first characterized as an insulin/mitogen-activated protein kinase, whose major known substrate is the 40S ribosomal subunit protein S6. p70S6K is activated by diverse stimuli through multi-site phosphorylation at positions such as Thr-252 and Ser-434. In Alzheimer's Disease, p70S6K activation is associated with PHF-tau (hyperphosphorylated tau) accumulation. In non-neuronal cells, p70S6K has been shown to regulate actin polymerization.
Synonyms:	p70S6Kb antibody, Ribosomal protein S6 kinase 70kDa, polypeptide 2 antibody, Ribosomal protein S6 kinase beta 2 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RPS6KB1
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the carboxy terminal end of human p70S6K protein.
Purity/Specificity:	This affinity-purified antibody is directed against the human p70S6K protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with p70S6K proteins from human, rat and mouse. Reactivity against homologues from other sources is not known.
Relevant Links:	• 600-401-942 SDS • UniProtKB - P23443 • NCBI - 54041234 • GeneID - 6198

Application Details

Tested Applications:	ELISA, IP, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunoprecipitation and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a predominant band approximately 70 kDa in size corresponding to p70S6K by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IP:	5 µg/mg protein sample
WB:	1:1,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.25 mg/mL by UV absorbance at 280 nm
Buffer:	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot using Rockland's Affinity Purified anti-p70S6K antibody shows detection of a predominant band corresponding to p70S6K in mouse brain extract (right lane) after immunoprecipitation. The left lane shows mock immunoprecipitation.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.