

AB-PK746

p70S6K-pT444+pS447 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase p70S6K (S6Ka, RPS6KB1)



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase 1
Alias:	RPS6KB1; KS6B1; Ps6K; p70(S6K)-alpha; Ribosomal protein S6 kinase I; RPS6KB1; S6K; S6K1; STK14A
UniProt ID:	P23443
Sequence Predicted Mass (KDa):	59.140 (525 AA; P23443); 56.593 (502 AA; P23443-4); 56.189 (502 AA; P23443-2); 52.997 (472 AA; P23443-3); 51.016 (451 AA; P23443-5)
Observed SDS-PAGE Mass (KDa):	63-70

Immunogen

Antibody Immunogen Source:	Human p70S6K (S6Ka, RPS6KB1) sequence peptide Cat. No.: PE-04AGG95
Antibody Immunogen Sequence:	PR(pT)PV(pS)VK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues P442 to K449; In the C-terminal third of the kinase
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-444+Ser-447

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150106
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium-strong immunoreactivity of a target-sized protein by Western blotting in HeLa cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in Jurkat cells. A >300 KDa medium cross-reactive protein was detected in HeLa cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)