

AB-PK745

p70S6K-pT412 Antibody

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

Address: 8755 Ash Street, Suite 1
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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-04AGH85
Antibody Immunogen Sequence:	LGF(pT)YVA(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L409 to A415; In the C-terminal third of the kinase
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-412

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:	150203
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in Jurkat cells, phenylarsine oxide (PAO) decreases 75 + 90 KDa proteins, and phenylarsine oxide (PAO) increases 60 KDa protein.

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)