

# PE-04AGG95-P

## p70S6K (442-449) pT444+pS447 Peptide Powder

10-mer immunogen and phosphatase substrate phosphopeptide based on p70S6K (S6Ka, RPS6KB1)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase 1
<b>Name Alias:</b>	RPS6KB1; KS6B1; Ps6K; p70(S6K)-alpha; Ribosomal protein S6 kinase I; RPS6KB1; S6K; S6K1; STK14A
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P23443

### Peptide Structure

<b>Peptide Name:</b>	p70S6K (442-449) pT444+pS447
<b>Peptide Origin:</b>	In the C-terminal third of the kinase
<b>Peptide Sequence Location:</b>	P442-K449
<b>Peptide Sequence:</b>	PR(pT)PV(pS)VK(bA)C
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1217.22
<b>Observed Peptide Mass:</b>	1217.5
<b>% Peptide Purity:</b>	94.8
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KMP04CAV-27
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20 °C
<b>Storage Stability:</b>	Over 1 year at -20 °C

### Applications

<b>Product Use:</b>	Serves as a blocking peptide for use with the p70S6K-pT444+pS447 rabbit polyclonal antibody (Cat. No.: PK746) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.
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This product is for in vitro research use only and is not intended for use in humans or animals.

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