

# PE-04AHT95-P

## RSK1 (217-224) pY220+pS221 Peptide Powder

10-mer immunogen and phosphatase substrate phosphopeptide based on RSK1 (RPS6KA1, p90RSK)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Ribosomal S6 protein-serine kinase 1; Ribosomal protein S6 kinase alpha 2
<b>Name Alias:</b>	90 kDa ribosomal protein S6 kinase 1; HU-1; Kinase p90RSK1; KS6A1; KS6AA; MAPKAPK1A; P90RSK1; RPS6KA1; S6K-alpha 1; CCDS284.1; ENSG00000117676
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q15418

### Peptide Structure

<b>Peptide Name:</b>	RSK1 (217-224) pY220+pS221
<b>Peptide Origin:</b>	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. These are two of the major in vivo phosphorylation sites in RSK1.
<b>Peptide Sequence Location:</b>	K217-G224
<b>Peptide Sequence:</b>	KKA(pY)(pS)FCG(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>	1236.2
<b>Observed Peptide Mass:</b>	1237.0
<b>% Peptide Purity:</b>	97.4
<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>	KMP04CAW-10
<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 RSK1-pY220+pS221 rabbit polyclonal antibody (Cat. No.: PK807) 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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