

# PE-04AKG90-P

## ERK5 (216-222) pT219+pY221 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on ERK5 (MAPK7)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Extracellular regulated protein-serine kinase 5 (Big MAP kinase 1 (BMK1))
<b>Name Alias:</b>	BMK; BMK1; BMK1 kinase; ERK4; ERK-5; Extracellular-signal-regulated kinase 5; Kinase ERK5; MAPK7; PRKM7; ENSG00000166484
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q13164

### Peptide Structure

<b>Peptide Name:</b>	ERK5 (216-222) pT219+pY221
<b>Peptide Origin:</b>	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	Y216-V222
<b>Peptide Sequence:</b>	YFM(pT)E(pY)V(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>	1286.2
<b>Observed Peptide Mass:</b>	1285.9*
<b>% Peptide Purity:</b>	91.3
<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-75
<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 ERK5-pT219+pY221 rabbit polyclonal antibody (Cat. No.: PK625) 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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