

# PE-04AKS99-P

## NUAK1 (208-214) pT211 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on NuaK1 (ARK5)/Nuak2



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	NUAK family SNF1-like kinase 1; AMPK-related protein kinase 5
<b>Name Alias:</b>	AMP-activated protein kinase family member 5; ARK5; KIAA053; KIAA0537; Kinase NuaK1; NUAK family, SNF1-like kinase, 1; NUAK2; Probable KIAA0537; ENSG00000074590
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	O60285

### Peptide Structure

<b>Peptide Name:</b>	NUAK1 (208-214) pT211
<b>Peptide Origin:</b>	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	F208-G214
<b>Peptide Sequence:</b>	FLQ(pT)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>	1069.1
<b>Observed Peptide Mass:</b>	1070.1
<b>% Peptide Purity:</b>	100
<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-87
<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 NuaK1-pT211 rabbit polyclonal antibody (Cat. No.: PK737) 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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