

# PE-04AHL80-P

## AMPKa2 (374-382) pS377 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on AMPKa2 (PRKAA2)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	5'-AMP-activated protein kinase catalytic subunit alpha-2
<b>Name Alias:</b>	AAPK2; AMPK alpha-2 chain; Kinase AMPK-alpha2; AMPK2; PRKAA; PRKAA2 ENSG00000162409
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P54646

### Peptide Structure

<b>Peptide Name:</b>	AMPKa2 (374-382) pS377
<b>Peptide Origin:</b>	In the C-terminal half of the protein after the kinase catalytic domain. This is the major in vivo phosphorylation site in AMPKa2.
<b>Peptide Sequence Location:</b>	I374-C382
<b>Peptide Sequence:</b>	IAD(pS)PKARC
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	Phosphorylated

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1110.2
<b>Observed Peptide Mass:</b>	1111.2
<b>% Peptide Purity:</b>	~ 80
<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-01
<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 AMPKa2-pS377 rabbit polyclonal antibody (Cat. No.: PK522) 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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