

PE-04AIG99-P

AMPKa1 (180-186) pT183+pS184 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on AMPKα1 (PRKAA1)



KINEXUS

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Target Protein

Name Long:	5'-AMP-activated protein kinase catalytic subunit alpha-1
Name Alias:	5'-AMP-activated protein kinase, catalytic alpha-1 chain; AAKP1; Acetyl-CoA carboxylase kinase; AMPK alpha-1 chain; AMPK, alpha, 1; AMPK-alpha1; HMG-CoA reductase kinase; HMG-CoA reductase kinase; PRKAA1; Protein kinase, AMP-activated, alpha 1 catalytic subunit; MGC33776; MGC57364; CCDS3932.1; ENSG00000132356
Species Origin:	Human
UniProt ID:	Q13131

Peptide Structure

Peptide Name:	AMPKa1 (180-186) pT183+pS184
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Sequence Location:	F180-G186
Peptide Sequence:	FLR(pS)(pT)CG(bA)C
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1116.1
Observed Peptide Mass:	1115.3
% Peptide Purity:	100
Peptide Appearance:	White powder
Peptide Form:	Solid
Peptide Solubility:	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
Lot Number:	KMP04CAW-23
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	Serves as a blocking peptide for use with the AMPKα1-pT183+pS184 rabbit polyclonal antibody (Cat. No.: PK521) 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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