

# PE-04ACG75-P

## AKT1 (471-477) pS473+pY474 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on Akt1 (PKBa)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	RAC-alpha serine/threonine-protein kinase
<b>Name Alias:</b>	AKT; Akt1; AKT1 kinase; C-AKT; Kinase Akt1; PKB; PKB-alpha; PRKBA; V-akt murine thymoma viral oncogene 1; Protein kinase B; RAC; RAC-alpha serine,threonine kinase; RAC-alpha serine/threonine kinase; RAC-PK-alpha; PKBA; hCG_96740; AKT1_NEW; AKT; MGC99656; CCDS9994; B0LPE5; B2RAM5; B3KVH4; B3KXD7; B7Z5R1; Q9BV07; ENSG00000142208
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P31749

### Peptide Structure

<b>Peptide Name:</b>	AKT1 (471-477) pS473+pY474
<b>Peptide Origin:</b>	In Pkinase_C domain near C-terminus of the kinase
<b>Peptide Sequence Location:</b>	Q471-S477
<b>Peptide Sequence:</b>	QF(pS)(pY)SAS(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>	1123.0
<b>Observed Peptide Mass:</b>	1121.9
<b>% Peptide Purity:</b>	75.2
<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>	KMP04CAT-03
<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 Akt1-pS473+pY474 rabbit polyclonal antibody (Cat. No.: PK514) 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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