PE-04AHD99-P
AurA (285-291) pT287+pT288 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide
based on AurKA (Aurora A, AIK, STK15)

KiNEXUS

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Target Protein

Name Long:	Aurora Kinase A (serine/threonine protein kinase 6)
Name Alias:	AIK; ARK1; AURKA; Aurora kinase A; Aurora,IPL1-related kinase 1; Aurora/IPL1-related kinase 1; Aurora-1; Aurora-A; Aurora-family kinase 1; STK7; BTAK; STK15; STK6; AURORA2; AurA; MGC34538; CCDS13451.1; ENSG00000087586
Species Origin:	Human
UniProt ID:	O14965

Peptide Structure

Peptide Name:	AurA (285-291) pT287+pT288
Peptide Origin:	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Sequence Location:	R285-G291
Peptide Sequence:	RR(pT)(pT)LCG(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:	1140.11
Observed Peptide Mass:	1137.9
% Peptide Purity:	98.7
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:	KMP04CAV-50, KMP04CAW-28
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	Services as a blocking peptide for use with the AurKA-pT287+pT288 rabbit polyclonal antibody (Cat. No.: PK529) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.