PE-04ABO90-P

NEK2 (168-174) pT170+pS171 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on NEK2

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Target Protein

Name Long:	NIMA (never-in-mitosis)-related protein-serine kinase 2
Name Alias:	HSPK 21; Kinase Nek2; NEK2A; NIMA (never in mitosis gene a)-related kinase 2; NimA-like protein kinase 1; NimA-related protein kinase 2; NLK1
Species Origin:	Human
UniProt ID:	P51955

Peptide Structure

Peptide Name:	NEK2 (168-174) pT170+pS171
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Sequence Location:	H168-K174
Peptide Sequence:	HD(pT)(pS)FAK(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:	1180.1 + 1138
Observed Peptide Mass:	1179
% Peptide Purity:	92
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:	KMP04CAN-26
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 Nek2-pT170+pS171 rabbit polyclonal antibody (Cat. No.: PK733) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.