

# PE-04AIJ90-P

## ATM (1978-1984) pS1981 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on ATM



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Ataxia telangiectasia mutated protein-serine kinase
<b>Name Alias:</b>	A-T, mutated; ATA; Ataxia telangiectasia mutated; Ataxia telangiectasia mutated homolog; ATC; ATD; ATDC; Kinase ATM; TEL1; TELO1; telomere maintenance 1; MGC74674; DKFZp781A0353; MGC74674; ENSG00000149311; Telomere maintenance 1
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q13315

### Peptide Structure

<b>Peptide Name:</b>	ATM (1978-1984) pS1981
<b>Peptide Origin:</b>	In the C-terminal half of the protein kinase before the FAT domain
<b>Peptide Sequence Location:</b>	E1978-T1984
<b>Peptide Sequence:</b>	EEG(pS)QST(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>	989.9
<b>Observed Peptide Mass:</b>	989.6
<b>% Peptide Purity:</b>	~ 90
<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-26
<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 ATM-pS1981 rabbit polyclonal antibody (Cat. No.: PK526) 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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