

# PE-04ABZ95-P

## JAK2 (1005-1012) pY1007+pY1008 Peptide Powder

10-mer immunogen and phosphatase substrate phosphopeptide based on JAK2



# KINEXUS

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Janus protein-tyrosine kinase 2
<b>Name Alias:</b>	JAK-2; Janus kinase 2; JTK10; Kinase Jak2 ; JAK2_ENST00000381652; JAK2_ENST00000381652; CCDS6457; A8K910; A9QVL8; B4DYV1; Q506Q0; Q52R86; Q8IXP2; ENSG00000096968
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	O60674

### Peptide Structure

<b>Peptide Name:</b>	JAK2 (1005-1012) pY1007+pY1008
<b>Peptide Origin:</b>	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	K1005-E1012
<b>Peptide Sequence:</b>	KE(pY)(pY)KVKE(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>	1419.4
<b>Observed Peptide Mass:</b>	1417.7
<b>% Peptide Purity:</b>	96
<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>	KMP04CAQ-06
<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 JAK2-pY1007+pY1008 rabbit polyclonal antibody (Cat. No.: PK667) 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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