

# PE-04AVN65-P

## JAK2 (1004-1019) pY1007+pY1008+pS1016 Peptide Powder

16-mer immunogen and phosphatase substrate phosphopeptide based on JAK2



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### 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 (1004-1019) pY1007+pY1008+pS1016  |
| <b>Peptide Origin:</b>              | In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII. |
| <b>Peptide Sequence Location:</b>   | D1004-F1019  |
| <b>Peptide Sequence:</b>            | DKE(pY)(pY)KVKEPGE(pS)PIF  |
| <b>Peptide N-Terminus:</b>          | Free amino   |
| <b>Peptide C-Terminus:</b>          | Amide  |
| <b>Peptide Modifications Other:</b> | Phosphorylated   |

### Production

|                                   |   |
|-----------------------------------|---|
| <b>Peptide Production Method:</b> | Solid-phase peptide synthesis   |
| <b>Calculated Peptide Mass:</b>   | 2384.5  |
| <b>Observed Peptide Mass:</b>     | 2384.4  |
| <b>% Peptide Purity:</b>          | 66  |
| <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>                | KLP04CAC-16   |
| <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> | This phosphopeptide may be useful as a substrate for screening the phosphatase activity of protein phosphatases. |
|---------------------|--|

This product is for in vitro research use only and is not intended for use in humans or animals.

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