

For Research Use Only

# Phospho-eEF2K (Ser366) Polyclonal antibody



Catalog Number: 29032-1-AP

## Basic Information

|                                      |  |  |
|--------------------------------------|--|--|
| <b>Catalog Number:</b><br>29032-1-AP | <b>GenBank Accession Number:</b><br>BC032665               | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>300 µg/ml            | <b>GeneID (NCBI):</b><br>29904                             | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000            |
| <b>Source:</b><br>Rabbit             | <b>UNIPROT ID:</b><br>O00418                               |  |
| <b>Isotype:</b><br>IgG               | <b>Full Name:</b><br>eukaryotic elongation factor-2 kinase |  |
|                                      | <b>Calculated MW:</b><br>725 aa, 100 kDa                   |  |
|                                      | <b>Observed MW:</b><br>100 kDa                             |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB: Jurkat cells, λ phosphatase treated Jurkat cells |
| <b>Species Specificity:</b><br>Human     |   |

## Background Information

Eukaryotic Elongation Factor-2 Kinase (eEF2K) acts as a negative regulator of protein synthesis, translation, and cell growth. As a structurally unique member of the alpha-kinase family, eEF2K is essential to cell survival under stressful conditions, as it contributes to both cell viability and proliferation. eEF2K is regulated by various mechanisms, including phosphorylation through residues and autophosphorylation. eEF2K is regulated by various mechanisms, including phosphorylation through residues and autophosphorylation. eEF2K is downregulated through the phosphorylation of multiple sites via mTOR signaling and upregulated via the AMPK pathway. In the S6K-mediated pathway, RPS6KB1 or p70S6K, can phosphorylate eEF2K on Ser-366, rendering it inactive (PMID: 11500364, PMID: 34532346). The calculated molecular weight of eEF2K is 82kDa, and probably due to phosphorylation modification, resulting in a larger molecular weight, around 100kDa.

## Storage

**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

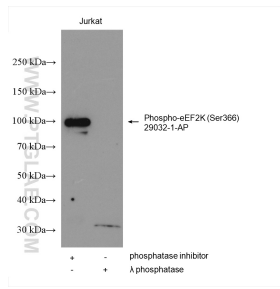
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## Selected Validation Data



Non-treated and  $\lambda$  phosphatase treated Jurkat cells were subjected to SDS PAGE followed by western blot with 29032-1-AP (Phospho-eEF2K (Ser366) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.