For Research Use Only

Phospho-eEF2K (Ser366) Recombinant antibody

Catalog Number:80351-3-RR

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Basic Information

Catalog Number:
80351-3-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC032665

GeneID (NCBI):
29904

UNIPROT ID:
O00418

Full Name:
eukaryotic elongation factor-2 kinase

Calculated MW:
725 aa, 100 kDa

Observed MW:
100 kDa

Purification Method:
Protein A purification

CloneNo.:
250361E10

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : Jurkat cells,

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. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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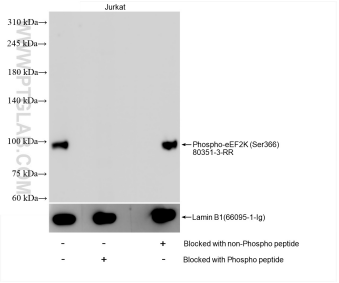
Selected Validation Data



Jurkat cell lysates were subjected to SDS PAGE followed by western blot with 80351-3-RR (Phospho-eEF2K (Ser366) antibody) blocked with BSA only, Phospho-eEF2K (Ser366) peptide or non-Phospho peptide at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control.