For Research Use Only

CoraLite® Plus 647-conjugated Phospho-eEF2K (Ser366) Recombinant monoclonal antibody

Catalog Number:CL647-80351-3

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL647-80351-3

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:
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human

Positive Controls:

FC (Intra) : λ phosphatase treated 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.

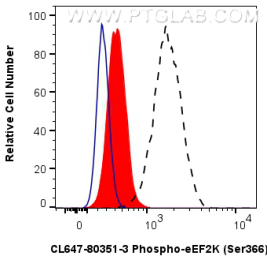
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 Jurkat cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Eef2k (Ser366) Recombinant Antibody (CL647-80351-3, Clone:250361E10)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).