

For Research Use Only



CoraLite® Plus 647-conjugated Phospho-EIF2AK4 (Thr899) Recombinant monoclonal antibody

Catalog Number:CL647-82835-3

Basic Information

Catalog Number:

CL647-82835-3

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC009350

GeneID (NCBI):

440275

UNIPROT ID:

Q9P2K8

Full Name:

eukaryotic translation initiation
factor 2 alpha kinase 4

Calculated MW:

187 kDa

Observed MW:

187 kDa

Purification Method:

Protein A purification

CloneNo.:

5N13

Recommended Dilutions:

FC (Intra): 0.2 ug per 10⁶ cells in a
100 µl suspension

Excitation/Emission maxima
wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

FC (Intra) : Calyculin A treated NIH/3T3 cells,

Background Information

EIF2AK4 (eukaryotic translation initiation factor 2 alpha kinase 4) belongs to a family of protein kinases that phosphorylate the α subunit of EIF2 (eukaryotic translation initiation factor 2) in response to various stress stimuli. Phosphorylation of EIF2A in response to EIF2AK4 activation subsequently increases translation of specific mRNAs that are important for stress remediation such as ATF4 (activating transcription factor 4). (PMID: 26986695)

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:

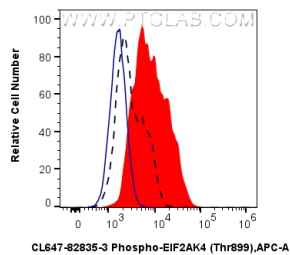
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ NIH/3T3 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.2 ug Coralite® Plus 647 Phospho-EIF2AK4 (Thr899) Recombinant Antibody (CL647-82835-3, Clone:5N13) (red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).