For Research Use Only

CoraLite® Plus 647-conjugated Phospho-EIF4E (Ser209) Recombinant monoclonal antibody

Catalog Number:CL647-84981

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

Basic Information

Catalog Number:
CL647-84981

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC012611

GeneID (NCBI):
1977

UNIPROT ID:
P06730

Full Name:
eukaryotic translation initiation factor 4E

Calculated MW:
29 kDa

Observed MW:
25 kDa

Purification Method:
Protein A purification

CloneNo.:
242049G10

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) : Calyculin A treated HEK-293 cells,

Background Information

Eukaryotic initiation factor 4F (eIF4F) is a critical effector and is thought to be the rate-limiting determinant of translation. The activity of eIF4E can be regulated by phosphorylation at Ser209, which is controlled by mitogen-activated protein kinase-interacting kinases Mnk1 and Mnk2. Although the function of eIF4E phosphorylation remains the subject of debate, it has been documented that the phosphorylation of eIF4E at Ser209 is crucial for biogenesis, tumorigenesis, and viral infection. (PMID: 38299843)

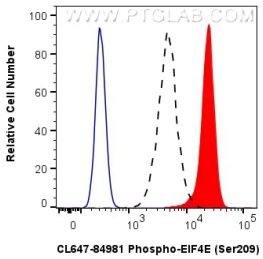
Storage

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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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



1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Eif4e (Ser209) Recombinant Antibody (CL647-84981, Clone:242049G10)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).