

For Research Use Only

Phospho-EIF4E (Ser209) Recombinant antibody

Catalog Number: 84981-1-RR



Basic Information

Catalog Number:

84981-1-RR

Size:

100ul, Concentration: 1000 µg/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:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : Calyculin A treated HEK-293T 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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

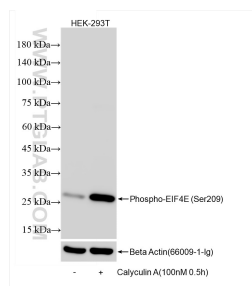
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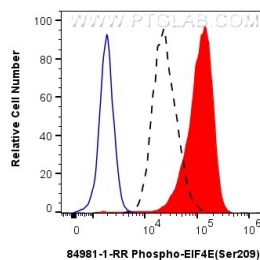
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Selected Validation Data



Non-treated and Calyculin A treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 84981-1-RR (Phospho-EIF4E (Ser209) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.



1x10⁶ Calyculin A treated HEK-293T cells were intracellularly stained with 0.13 ug Phospho-EIF4E (Ser209) Recombinant antibody (84981-1-RR, Clone:242049G10) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.