For Research Use Only

EIF4E Recombinant monoclonal antibody

Catalog Number:89091-1-RR

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Basic Information

Catalog Number:
89091-1-RR

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27191

GenBank Accession Number:
BC012611

GeneID (NCBI):
1977

UNIPROT ID:
P06730

Full Name:
eukaryotic translation initiation factor 4E

Calculated MW:
29 kDa

Observed MW:
26-29 kDa

Purification Method:
Protein A purification

CloneNo.:
262243C4

Recommended Dilutions:
WB: 1:5000-1:50000
IF/ICC: 1:200-1:800
FC (Intra): 0.25 ug per 10^6 cells in a 100 μl suspension

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HEK-293T cells, HSC-T6 cells, Jurkat cells, K-562 cells, Calu-3 cells, NIH/3T3 cells

IF/ICC : HepG2 cells,

FC (Intra) : HeLa cells,

Background Information

Eukaryotic translation initiation factor 4E, also known as eIF4E, is a protein that in humans is encoded by the EIF4E gene. eIF4E is the mRNA cap-binding protein, known as a general initiation factor allowing for mRNA-ribosome interaction and cap-dependent translation in eukaryotic cells. eIF4E is a polypeptide that exists as both a free form and as part of the eIF4F pre-initiation complex. Regulation of eIF4E may be achieved via three distinct mechanisms: transcription, phosphorylation, and inhibitory proteins. This is a rabbit polyclonal antibody raised against the full-length human EIF4E.

Storage

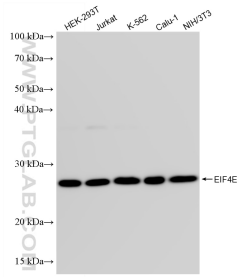
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

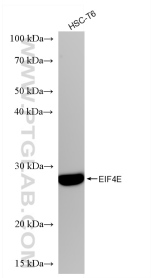
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

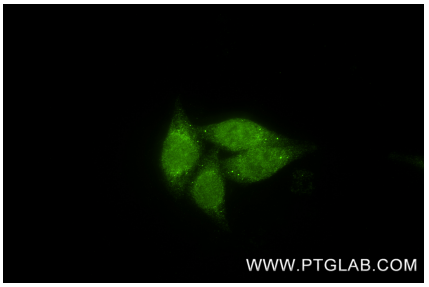
Selected Validation Data



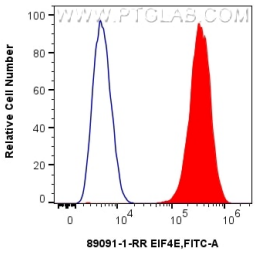
Various lysates were subjected to SDS PAGE followed by western blot with 89091-1-RR (EIF4E antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



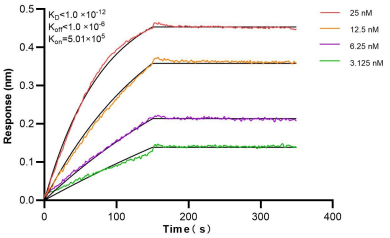
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 89091-1-RR (EIF4E antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EIF4E antibody (89091-1-RR, Clone: 262243C4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug EIF4E Recombinant monoclonal antibody (89091-1-RR, Clone:262243C4)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



Biolayer interferometry (BLI) kinetic assays of 89091-1-RR against Human EIF4E were performed. The affinity constant is below 1 pM.