

For Research Use Only

# EIF4E Polyclonal antibody

Catalog Number: 11149-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

11149-1-AP

### Size:

600 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1626

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells

IHC : human breast cancer tissue, human gliomas tissue

IF/ICC : HepG2 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yan Sun	34469122	ACS Chem Neurosci	WB
Guan-Nan Li	36097006	Signal Transduct Target Ther	WB
Jing Wang	36298816	Viruses	WB

## 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

For technical support and original validation data for this product please contact:

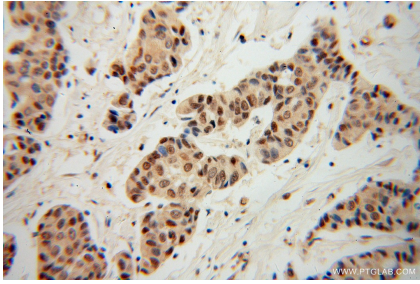
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

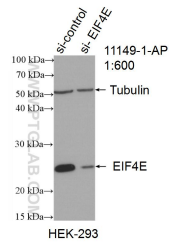
W: [ptgcn.com](http://ptgcn.com)

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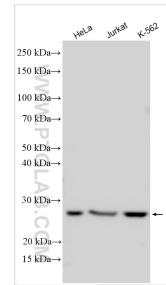
## Selected Validation Data



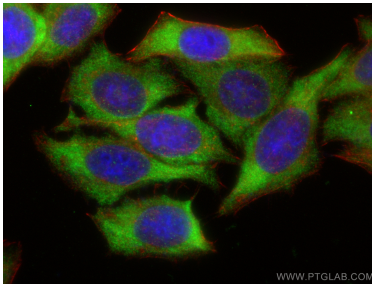
Immunohistochemical analysis of paraffin-embedded human breast cancer using 11149-1-AP (EIF4E antibody) at dilution of 1:100 (under 40x lens).



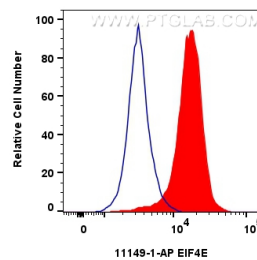
WB result of EIF4E antibody (11149-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF4E transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 11149-1-AP (EIF4E antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF4E antibody (11149-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4  $\mu$ g EIF4E Polyclonal antibody (11149-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).