

## eIF4E (PT0569R) PT™ Rabbit mAb

CatalogNo: YM8384 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, IP, ELISA

#### MW

- 25kD (Calculated)  
25kD (Observed)

#### Isotype

- IgG, Kappa

### Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal

**Clone Number** PT0569R

### Immunogen Information

**Specificity** Endogenous

## | Target Information

**Gene name** EIF4E

**Protein Name** Eukaryotic translation initiation factor 4E

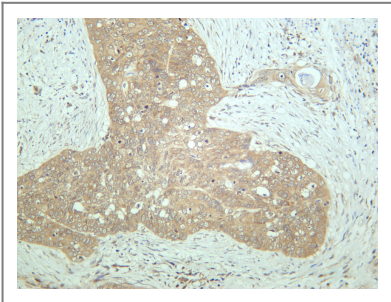
Organism	Gene ID	UniProt ID
Human	<a href="#">1977;</a>	<a href="#">P06730;</a>
Mouse	<a href="#">13684;</a>	<a href="#">P63073;</a>
Rat	<a href="#">117045;</a>	<a href="#">P63074;</a>

**Cellular Localization** Cytoplasm, Nucleus

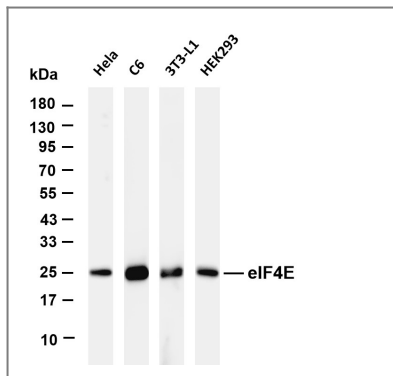
**Tissue specificity** Brain,Fetal brain,Placenta,Pooled,Small intestine,Testis,

**Function** Caution:Was originally thought to be phosphorylated on Ser-53 (PubMed:3112145); this was later shown to be wrong (PubMed:7665584).,Function:Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.,PTM:Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.,similarity:Belongs to the eukaryotic initiation factor 4E family.,subunit:eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. EIF4E is also known to interact with other partners. The interaction with EIF4ENIF1 mediates the import into the nucleus. Nonphosphorylated EIF4EBP1, EIF4EBP2 and EIF4EBP3 compete with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. Rapamycin can attenuate insulin stimulation, mediated by FKBP. Interacts mutually exclusive with EIF4A1 and EIF4A2. Interacts with NGDN and PIWIL2 (By similarity). Interacts with Lassa virus Z protein.,

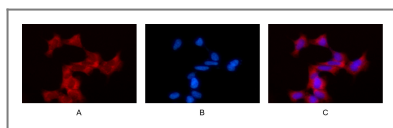
## | Validation Data



Humancervicalcarcinoma was stained with anti-eIF4E rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-eIF4E antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: C6 Lane 3: 3T3-L1 Lane 4: HEK293 Predicted band size: 25kDa Observed band size: 25kDa



Immunofluorescence analysis of HEK293. Picture A: eIF4E antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

## Contact information

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**eIF4E (PT0569R)**  
**PT™ Rabbit mAb**

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