

Anti-EIF4E Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

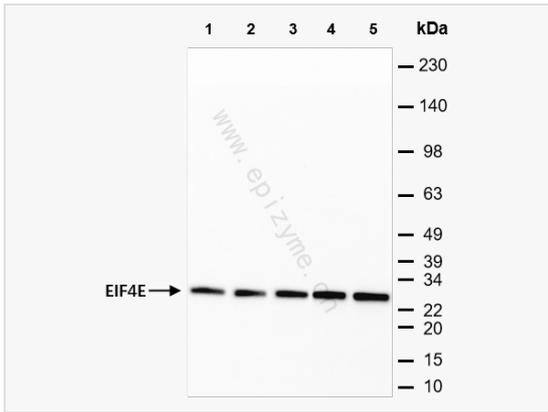
Catalog # M014280

Product Information

| | |
|-------------|---|
| Application | IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB |
| Reactivity | Human, Rat, Mouse (Cell) |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone No. | 36P68F22 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | Recombinant protein of human EIF4E |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-EIF4E Mouse mAb [36P68F22] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|---------------|---|
| Synonyms | AUTS19, CBP, eIF 4E, eIF 4F 25 kDa subunit, EIF 4F, eIF-4E, eIF-4F 25 kDa subunit, eIF4E, EIF4E1, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4 E, Eukaryotic translation initiation factor 4E, Eukaryotic translation initiation factor 4E like 1, IF4E_HUMAN, Messenger RNA Cap Binding Protein eIF 4E, MGC111573, mRNA cap binding protein, mRNA cap-binding protein. |
| Calculated MW | Calculated MW: 25 kDa; Observed MW: 25 kDa |
| Uniprot ID | P06730 |
| Gene ID | 1977 |
| Background | EIF4E 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. |



Western Blot - Anti-EIF4E Mouse mAb [36P68F22]

All lanes: M014280 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: Rat muscle whole tissue lysates

Lane 5: Rat spleen whole tissue lysates

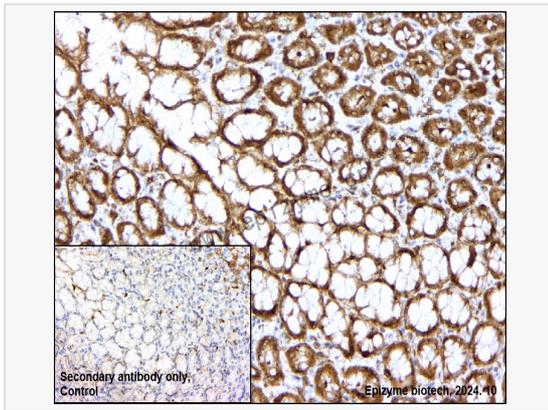
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 25 kDa

Observed band size: 25 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-EIF4E Mouse mAb [36P68F22]

Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014280 at 1:200 dilution

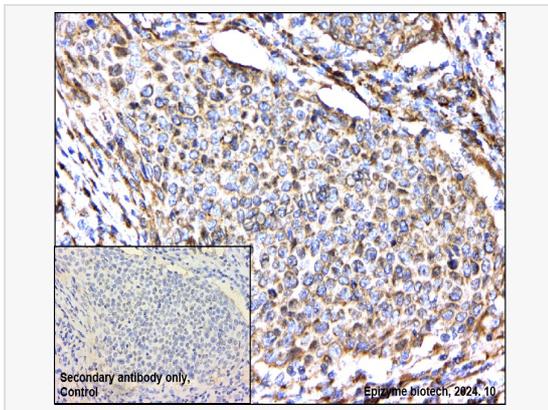
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-EIF4E Mouse mAb [36P68F22]

Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014280 at 1:200 dilution

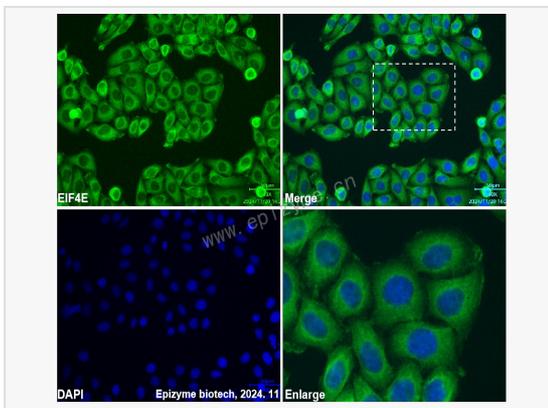
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-EIF4E Mouse mAb [36P68F22]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: M014280 at 1:100 dilution

Secondary antibodies: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).