

Anti-eIF4E Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

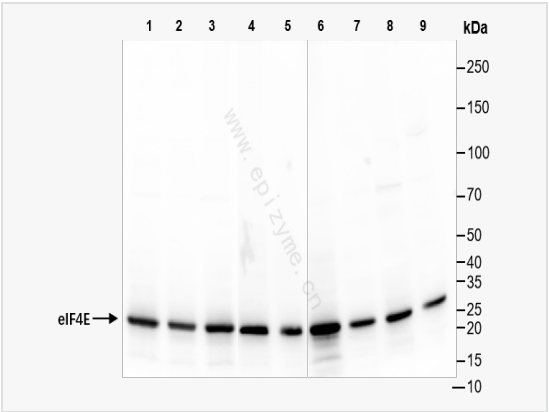
Catalog # R011599

Product Information

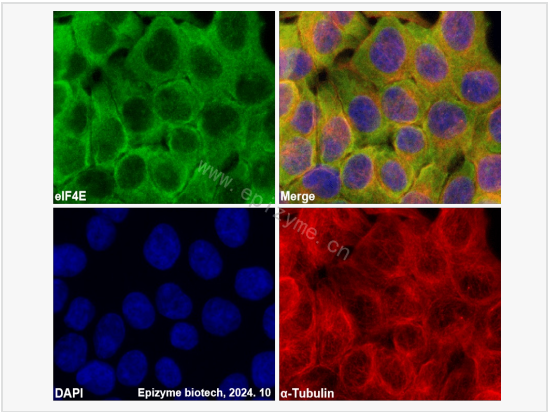
Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	39L32M79
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human eIF4E
Format	Affinity purified monoclonal antibody supplied 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 Rabbit mAb [39L32M79] 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	The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]



Western Blot - Anti-eIF4E Rabbit mAb [39L32M79]
All lanes: R011599 at 1:5,000 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: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: Rat spleen whole tissue lysates
Lane 7: Mouse heart whole tissue lysates
Lane 8: Mouse brain whole tissue lysates
Lane 9: Mouse muscle whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 25 kDa
Observed band size: 25 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-eIF4E Rabbit mAb [39L32M79]
Sample: HCT116 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: R011599 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).