

EIF4E

Reactivity: Human Mouse Rat

Tested applications: WB IHC ICC IP

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:100 ICC 1:50 - 1:200 IP 1:50 - 1:100

Calculated MW: 29kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human EIF4E

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CBP; EIF4E1; EIF4EL1; EIF4F; MGC111573;

Catalog #: A2162

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1977

Isotype: IgG

Swiss Prot: P06730

Purity: Affinity purification

For research use only.

Background:

Eukaryotic initiation factor 4E (eIF4E) binds to the mRNA cap structure to mediate the initiation of translation (1,2). eIF4E interacts with eIF4G, a scaffold protein that promotes assembly of eIF4E and eIF4A into the eIF4F complex (2). eIF4B is thought to assist the eIF4F complex in translation initiation. Upon activation by mitogenic and/or stress stimuli mediated by Erk and p38 MAPK, Mnk1 phosphorylates eIF4E at Ser209 in vivo (3,4). Two Erk and p38 MAPK phosphorylation sites in mouse Mnk1 (Thr197 and Thr202) are essential for Mnk1 kinase activity (3). The carboxy-terminal region of eIF4G also contains serum-stimulated phosphorylation sites, including Ser1108, Ser1148, and Ser1192 (5). Phosphorylation at these sites is blocked by the PI3 kinase inhibitor LY294002 and by the FRAP/mTOR inhibitor rapamycin.

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