EIF4E Mouse Monoclonal Antibody

E10-30189

Background: eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation of eIF4E on serine 209 regulates the affinity of this protein for the 7 methyl GTP cap and/or RNA. Phosphorylation also enhances the interaction of eIF4E with eIF4G, which form a complex known as eIF4F. eIF4E phosphorylation is correlated with increased translational rate in a number of cell types. Several kinases are currently being investigated as potential regulators of eIF4E including PKC and/or the MAP kinase activated Mnk.

Catalog Number: E10-30189

Amount: 100μg/100μl

Clone Number: 5D11

Species: Mouse IgG1

MW: 25kDa

Aliases: CBP; EIF4F; EIF4E1; EIF4EL1; MGC111573; EIF4E

Entrez Gene: 1977

Immunogen: Purified recombinant fragment of human EIF4E expressed in E. Coli.

Storage: Store at 4℃, for long term storage, store at -20℃.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, IF, FC, ELISA. Not yet tested in other applications.

Application notes: WB: 1/500 - 1/2000, IHC: 1/200-1/1000, IF: 1/200-1/1000, FC: 1/200-1/400, ELISA: Propose dilution 1/10000.

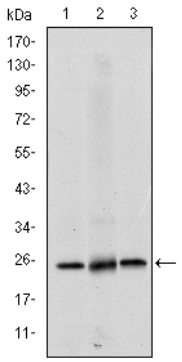


Figure 1: Western blot analysis using EIF4E mouse mAb against Hela (1), HEK293 (2) and K562 (3) cell lysate.

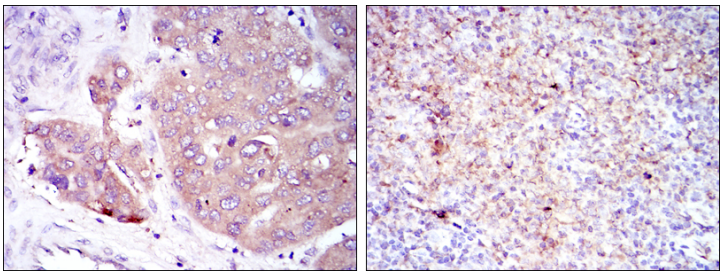
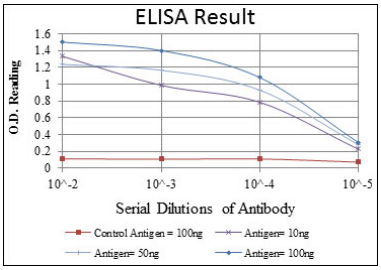


Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer (left) and submaxillary tumor (right) using EIF4E mouse mAb with DAB staining.



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