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Product datasheet for AP02735PU-N

EIF4E Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500 - 1/1000; Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. **Immunofluorescence:** 1/100 - 1/200. **Immunohistochemistry on Paraffin-Embedded Sections:** 1/50 - 1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic non-phosphopeptide derived from human eIF4E around the phosphorylation site of serine 209 (S-G-S*p*-T-T).
Specificity:	This antibody detects endogenous levels of total eIF4E protein.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	eukaryotic translation initiation factor 4E
Database Link:	Entrez Gene 1977 Human P06730

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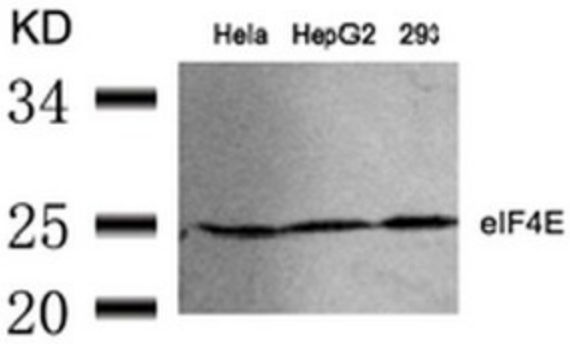
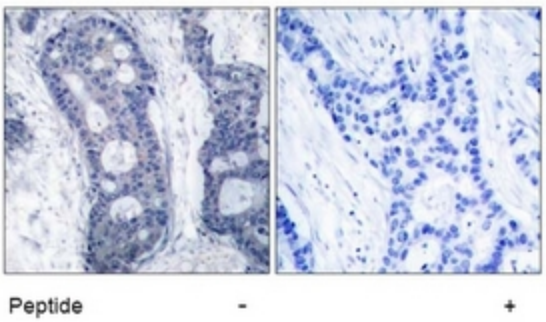
Background: eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation of eIF4E on serine 209 regulates the 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.

Synonyms: eIF-4F 25 kDa subunit, EIF-4E, EIF4EL1, EIF4F

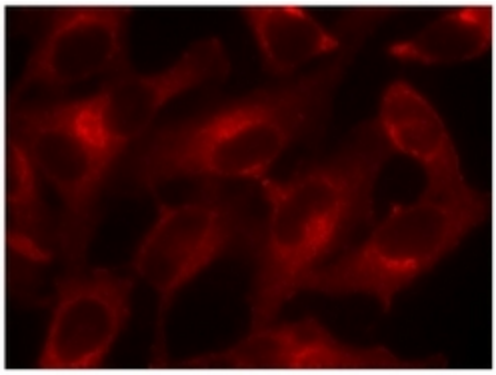
Product images:



Western Blot analysis of extracts from HeLa, HepG2 and 293 cells using eIF4E antibody



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using eIF4E antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using eIF4E antibody (Red).