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Product datasheet for AP20836PU-S

EIF4E pSer209 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western blot:** 1/500 - 1/1000. **Immunohistochemistry on paraffin sections:** 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of eIF4E protein only when phosphorylated at Ser209.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 25 kDa
Gene Name:	eukaryotic translation initiation factor 4E
Database Link:	Entrez Gene 13684 MouseEntrez Gene 117045 RatEntrez Gene 1977 Human P06730

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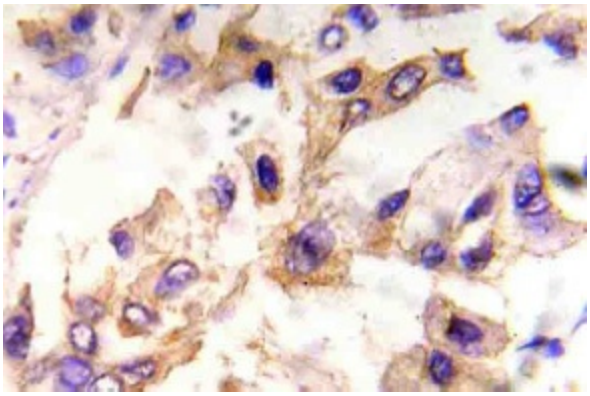
Background: The initiation of protein synthesis in eukaryotic cells is regulated by interactions between protein initiation factors and RNA molecules. The eukaryotic initiation complex eIF4F exists in vitro as a trimeric complex of eIF4G, eIF4E, and eIF4A. Together, the complex allows ribosome binding to mRNA by inducing the unwinding of mRNA secondary structures. eIF4E is a 25 kDa protein that binds to the mRNA “cap” during an early step in the initiation of protein synthesis. eIF4A is a 46 kDa protein that acts as an ATP-dependent RNA helicase. eIF4G is 154 kDa protein that acts as a bridge between eIF4E, eIF4A, and the eIF3 complex.

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

Protein Pathways: Insulin signaling pathway, mTOR signaling pathway

Product images:

Western blot (WB) analysis of p-eIF4E antibody (Cat.-No.: [AP20836PU-N]) in extracts from NIH/3T3 FBS cells.



Immunohistochemistry (IHC) analyzes of p-eIF4E (Cat.-No.: [AP20836PU-N]) in paraffin-embedded human breast carcinoma tissue.