



eIF4E Monoclonal Antibody

Catalog No	YP-mAb-03848
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	EIF4E
Immunogen	The antiserum was produced against synthesized peptide derived from human eIF4E. AA range:168-217
Specificity	eIF4E Monoclonal Antibody detects endogenous levels of eIF4E protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
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
Observed Band	25kD
Calculated Molecular Weight	25kD
Cell Pathway	Cytoplasm, P-body . Cytoplasm . Cytoplasm, Stress granule . Nucleus . Interaction with EIF4ENIF1/4E-T is required for localization to processing bodies (P-bodies) (PubMed:16157702, PubMed:24335285, PubMed:25923732). Imported in the nucleus via interaction with EIF4ENIF1/4E-T via a piggy-back mechanism (PubMed:10856257). .
Tissue Specificity	Brain,Fetal brain,Placenta,Pooled,Small intestine,Testis,
Function	caution:Was originally thought to be phosphorylated on Ser-53 (PubMed:3112145); this was later shown to be wrong (PubMed:7665584)., function:Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome



binding by inducing the unwinding of the mRNAs secondary structures., PTM:Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.,similarity:Belongs to the eukaryotic initiation factor 4E family.,subunit:eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. EIF4E is also known to interact with other partners. The interaction with EIF4ENIF1 mediates the import into the nucleus. Nonphosphorylated EIF4EBP1, EIF4EBP2 and EIF4EBP3 compete wi

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],

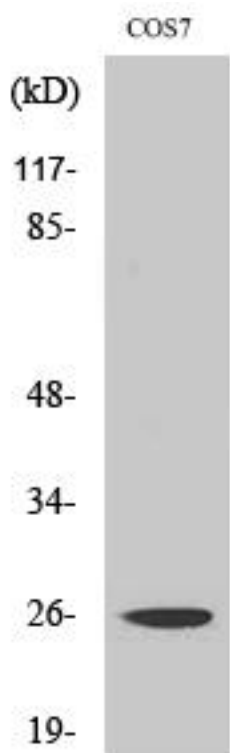
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using eIF4E Monoclonal Antibody