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EEF2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1541a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P13639
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5B6
Isotype	IgG1
Calculated MW	95338
Description	This gene encodes a member of the GTP-binding translation elongation factor family. This protein is an essential factor for protein synthesis. It promotes the GTP-dependent translocation of the nascent protein chain from the A-site to the P-site of the ribosome. This protein is completely inactivated by EF-2 kinase phosporylation. (provided by RefSeq)
Immunogen	Purified recombinant fragment of human EEF2 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	1938
Other Names	Elongation factor 2, EF-2, EEF2, EF2
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EEF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EEF2
Synonyms	EF2
Function	Catalyzes the GTP-dependent ribosomal translocation step during

translation elongation (PubMed:26593721). During this step, the ribosome changes from the pre-translocational (PRE) to the post- translocational (POST) state as the newly formed A-site-bound peptidyl- tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively (PubMed:26593721). Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome (PubMed:26593721).

Cellular Location

Cytoplasm. Nucleus. Note=Phosphorylation by CSK promotes cleavage and SUMOylation-dependent nuclear translocation of the C- terminal cleavage product.

References

1. Mol Cell Biol. 2008 Dec;28(23):7050-65. 2. Am J Physiol Regul Integr Comp Physiol. 2009 Feb;296(2):R326-33.

Images

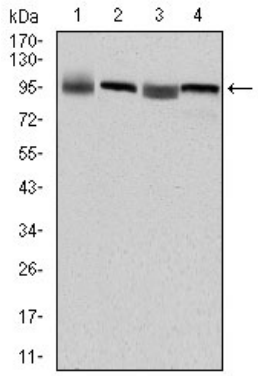

Figure 1: Western blot analysis using EEF2 mouse mAb against HepG2 (1), Hela (2), HEK293 (3) and A431 (4) cell lysate.

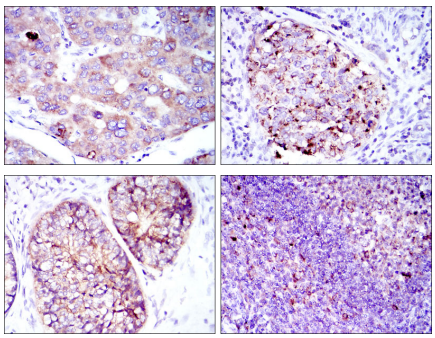

Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer tissues (left) and kidney cancer tissues (right) using EEF2 mouse mAb with DAB staining.

Figure 3: Immunohistochemical analysis of paraffin-embedded prostate cancer tissues (left) and tonsil tissues (right) using EEF2 mouse mAb with DAB staining.

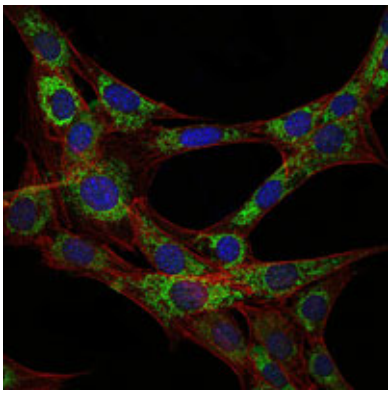

Figure 4: Immunofluorescence analysis of 3T3-L1 cells using EEF2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.