

EEF2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1541a**Specification****EEF2 Antibody - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	P13639
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	95kDa KDa

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 phosphorylation. (provided by RefSeq)

Immunogen

Purified recombinant fragment of human EEF2 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

EEF2 Antibody - 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.

EEF2 Antibody - 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).

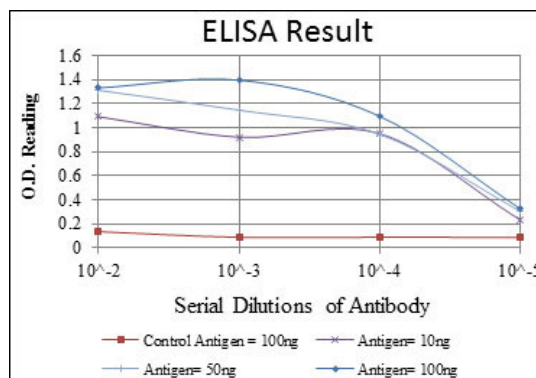
Cellular Location

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

EEF2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



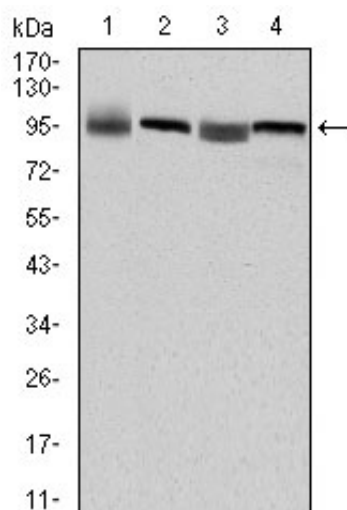


Figure 1: Western blot analysis using EEF2 mouse mAb against HepG2 (1), Hela (2), HEK293 (3) and A431 (4) cell lysate.

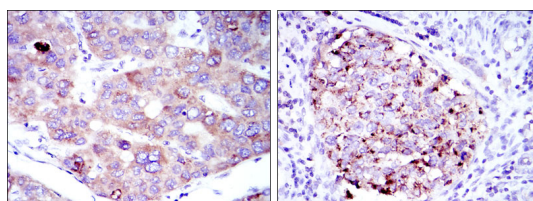


Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer tissues (left) and kidney cancer tissues (right) using EEF2 mouse mAb with DAB staining.

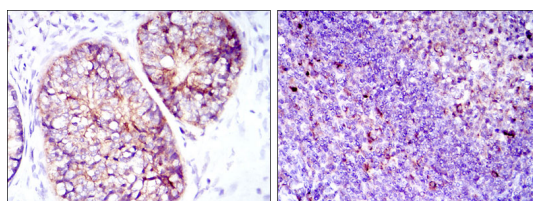


Figure 3: Immunohistochemical analysis of paraffin-embedded prostate cancer tissues (left) and tonsil tissues (right) using EEF2 mouse mAb with DAB staining.

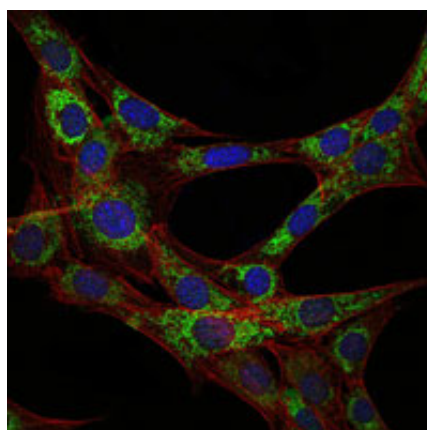


Figure 4: Immunofluorescence analysis of 3T3-L1 cells using EEF2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

EEF2 Antibody - 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.