10320 Camino Santa Fe, Suite G
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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 phosporylation. (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

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Name EEF2

Synonyms EF2

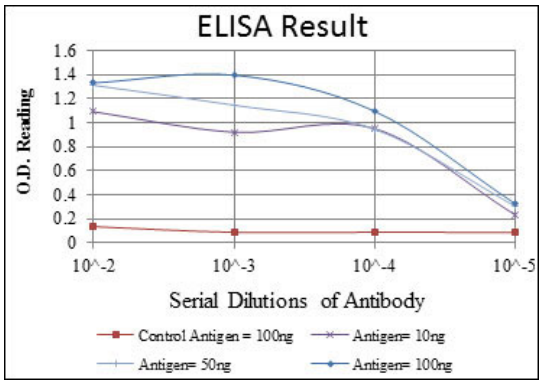
Function
Catalyzes the GTP-dependent ribosomal translocation step during translation elongation (PubMed:26593721). During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl- tRNA and P-site-bound deacylated 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 Cytomety
- Cell Culture



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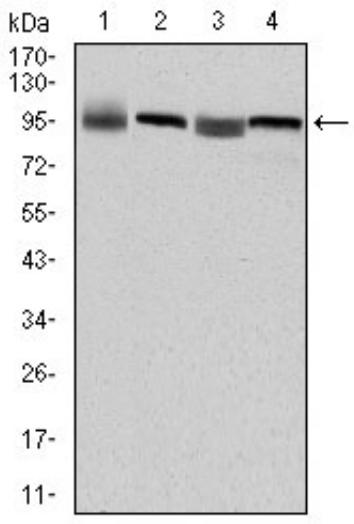

Figure 1: Western blot analysis using EEF2 mouse mAb against HepG2 (1), Hela (2), HEK293 (3) and A431 (4) cell lysate.

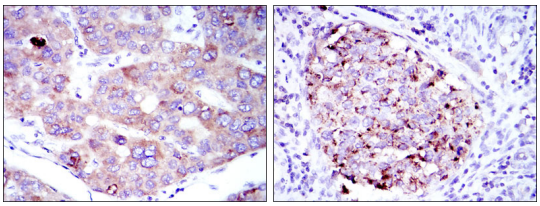

Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer tissues (left) and kidney cancer tissues (right) using EEF2 mouse mAb with DAB staining.

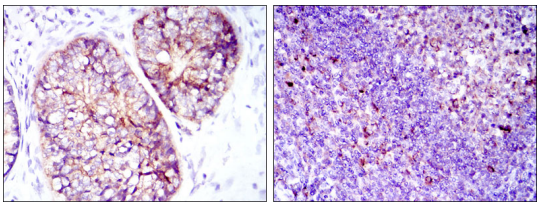

Figure 3: Immunohistochemical analysis of paraffin-embedded prostate cancer tissues (left) and tonsil tissues (right) using EEF2 mouse mAb with DAB staining.

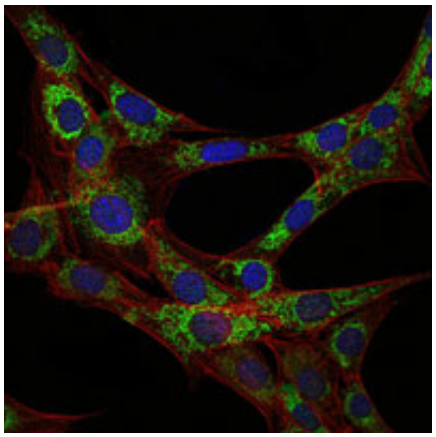

Figure 4: Immunofluorescence analysis of 3T3-L1 cells using EEF2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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.