

EF-2 Polyclonal Antibody

Catalog No: YT1476

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: eEF2

Fields: >>AMPK signaling pathway;>>Oxytocin signaling pathway

Gene Name: EEF2

Protein Name: Elongation factor 2

Human Gene Id: 1938

Human Swiss Prot

P13639

No:

Mouse Gene Id: 13629

Mouse Swiss Prot

P58252

No:

Rat Gene ld: 29565

Rat Swiss Prot No: P05197

Immunogen: The antiserum was produced against synthesized peptide derived from human

eEF2. AA range:31-80

Specificity: EF-2 Polyclonal Antibody detects endogenous levels of EF-2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 100kD

Cell Pathway: AMPK

Background : 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, Jul 2008],

Function: function: This protein promotes the GTP-dependent translocation of the nascent

protein chain from the A-site to the P-site of the ribosome.,PTM:Diphthamide is 2-[3-carboxyamido-3-(trimethyl-ammonio)propyl]histidine. Diphthamide can be

ADP-ribosylated by diphtheria toxin and by Pseudomonas exotoxin

A.,PTM:Phosphorylation by EF-2 kinase completely inactivates

EF-2., similarity: Belongs to the GTP-binding elongation factor family. EF-G/EF-2 subfamily., subunit: Component of the mRNA surveillance SURF complex, at least composed of ERF1, ERF3 (ERF3A or ERF3B), EEF2, UPF1/RENT1, SMG1,

SMG8 and SMG9.,

Subcellular Location:

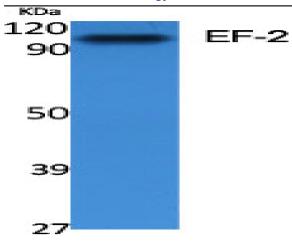
Cytoplasm . Nucleus . Phosphorylation by CSK promotes cleavage and SUMOylation-dependent nuclear translocation of the C-terminal cleavage

product...

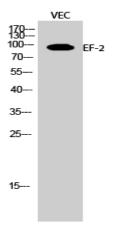
Expression : Brain, Cajal-Retzius cell, Epithelium, Hepatocyte, Ovary, Periph

Products Images

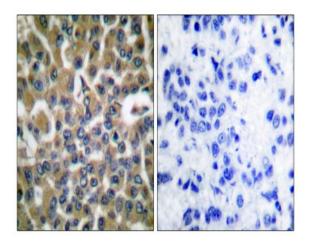
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Western Blot analysis of various cells using EF-2 Polyclonal Antibody diluted at 1:2000

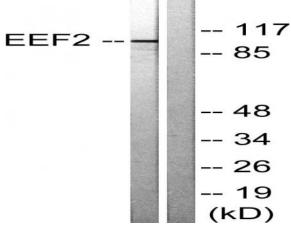


Western Blot analysis of VEC cells using EF-2 Polyclonal Antibody diluted at 1:2000

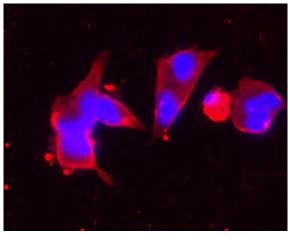


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using eEF2 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from NIH/3T3 cells, treated with serum 10% 30', using eEF2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of MCF7 cell. 1,primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).