

EF-2 (phospho Thr56) Polyclonal Antibody

Catalog No: YP0870

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 ld: 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 around the phosphorylation site of Thr56. AA range:31-80

Specificity: Phospho-EF-2 (T56) Polyclonal Antibody detects endogenous levels of EF-2

protein only when phosphorylated at T56.

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: 1:10000. Not

yet tested in other applications.



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

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

AMPK Cell Pathway:

This gene encodes a member of the GTP-binding translation elongation factor **Background:**

> 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

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

product...

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

orthogonal, hot Tag:

Sort: 5426

No4:

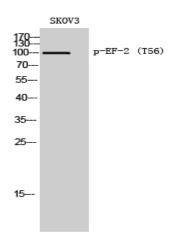
Host: Rabbit

Modifications: Phospho

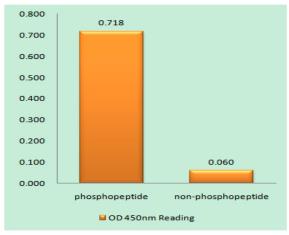
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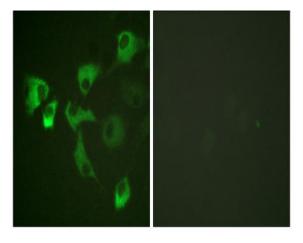
Products Images



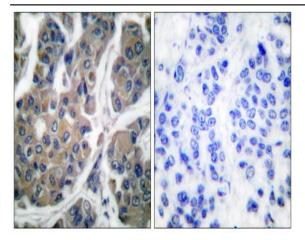
Western Blot analysis of SKOV3 cells using Phospho-EF-2 (T56) Polyclonal Antibody diluted at 1:2000



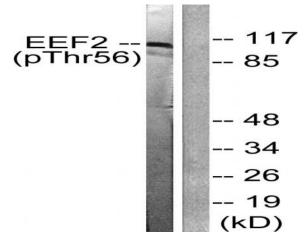
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eEF2 (Phospho-Thr56) Antibody



Immunofluorescence analysis of HUVEC cells, using eEF2 (Phospho-Thr56) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using eEF2 (Phospho-Thr56) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with Serum 10% 30', using eEF2 (Phospho-Thr56) Antibody. The lane on the right is blocked with the phospho peptide.