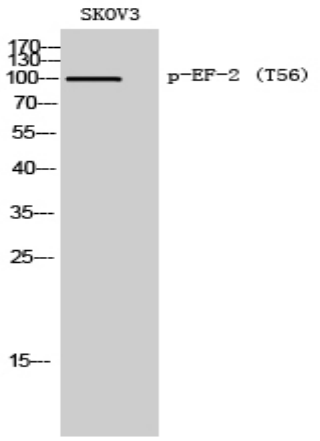
Best Tools for immunology Research

EF-2 (phospho Thr56) Polyclonal Antibody

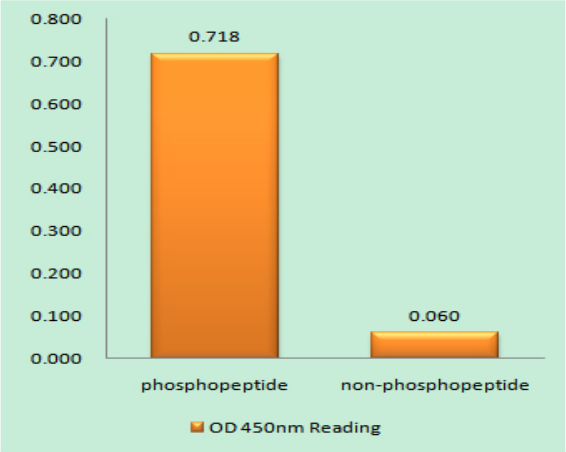
Catalog No :	YP0870
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	eEF2
Fields :	>>AMPK signaling pathway;>>Oxytocin signaling pathway
Gene Name :	EEF2
Protein Name :	Elongation factor 2
Human Gene Id :	1938
Human Swiss Prot No :	P13639
Mouse Gene Id :	13629
Mouse Swiss Prot No :	P58252
Rat Gene Id :	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.

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

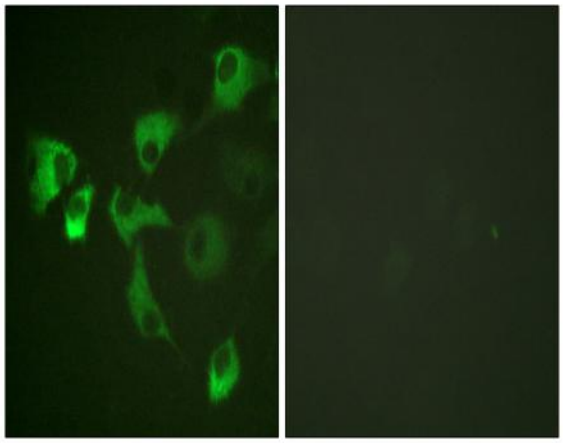
Products Images



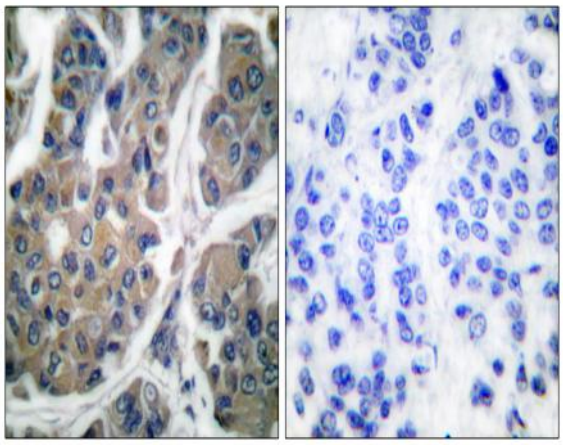
Western Blot analysis of SKOV3 cells using Phospho-EF-2 (T56) Polyclonal Antibody diluted at 1:2000



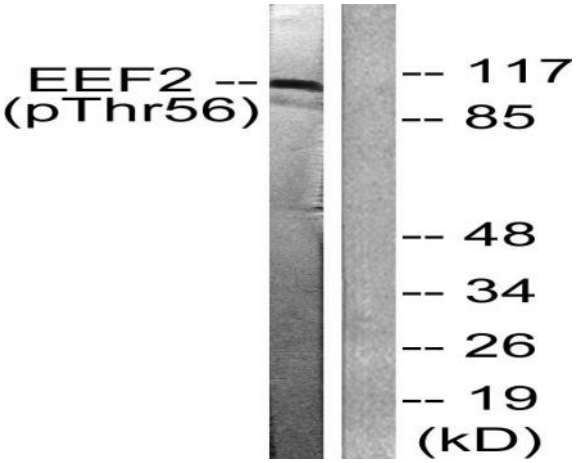
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eEF2 (Phospho-Thr56) Antibody



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.