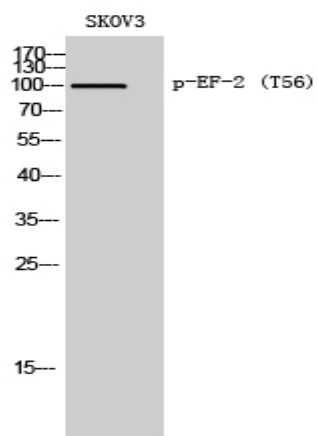


EF-2 (phospho Thr56) Polyclonal Antibody

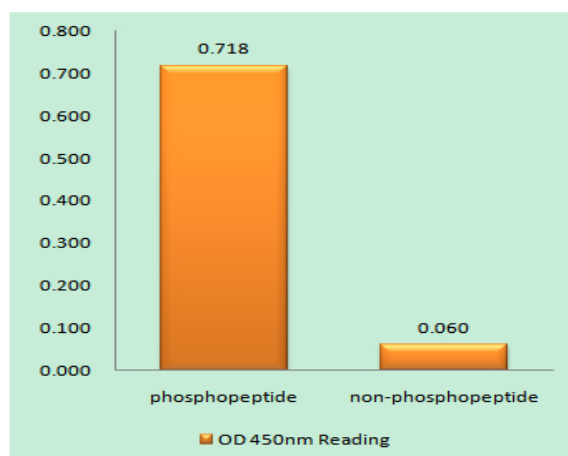
| | |
|------------------------------|---|
| Catalog No : | YP0870 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IHC;IF;ELISA |
| Target : | eEF2 |
| Fields : | >>AMPK signaling pathway;>>Oxytocin signaling pathway |
| Gene Name : | EEF2 |
| Protein Name : | Elongation factor 2 |
| Human 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 phosphorylation. [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 |

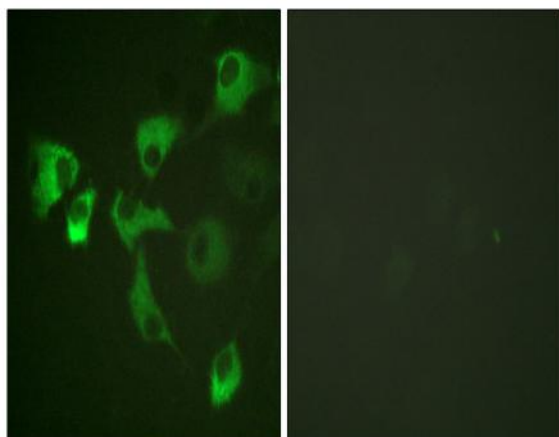
Products Images



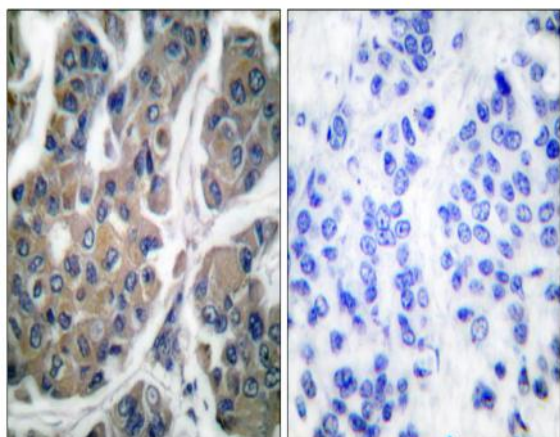
Western Blot analysis of SKOV3 cells using Phospho-EF-2 (T56) Polyclonal Antibody diluted at 1:2000



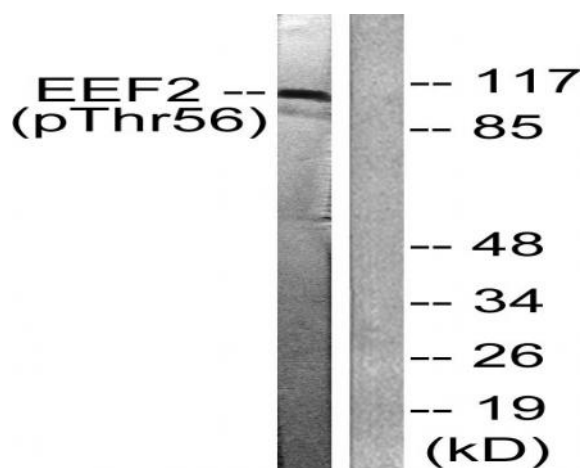
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eEF2 (Phospho-Thr56) Antibody



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.