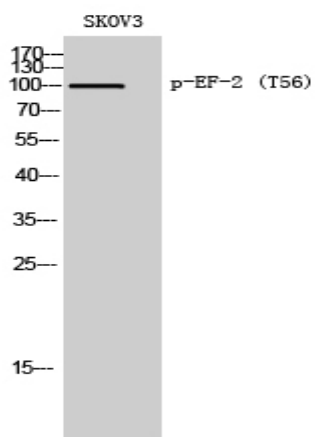


**EF-2 (phospho Thr56) Polyclonal Antibody**

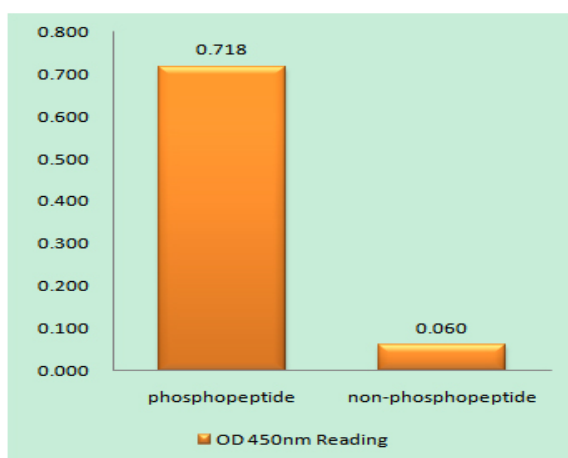
|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YP0870  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | eEF2  |
| <b>Fields :</b>              | >>AMPK signaling pathway;>>Oxytocin signaling pathway   |
| <b>Gene Name :</b>           | EEF2  |
| <b>Protein Name :</b>        | Elongation factor 2   |
| <b>Human Gene Id :</b>       | 1938  |
| <b>Human Swiss Prot No :</b> | P13639  |
| <b>Mouse Gene Id :</b>       | 13629   |
| <b>Mouse Swiss Prot No :</b> | P58252  |
| <b>Rat Gene Id :</b>         | 29565   |
| <b>Rat Swiss Prot No :</b>   | P05197  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human eEF2 around the phosphorylation site of Thr56. AA range:31-80 |
| <b>Specificity :</b>         | Phospho-EF-2 (T56) Polyclonal Antibody detects endogenous levels of EF-2 protein only when phosphorylated at T56.                       |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.                          |

|                               |  |
|-------------------------------|--|
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Observed Band :</b>        | 100kD  |
| <b>Cell Pathway :</b>         | AMPK   |
| <b>Background :</b>           | 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],  |
| <b>Function :</b>             | 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., |
| <b>Subcellular Location :</b> | Cytoplasm . Nucleus . Phosphorylation by CSK promotes cleavage and SUMOylation-dependent nuclear translocation of the C-terminal cleavage product. .   |
| <b>Expression :</b>           | Brain,Cajal-Retzius cell,Epithelium,Hepatocyte,Ovary,Periph  |
| <b>Tag :</b>                  | orthogonal,hot   |
| <b>Sort :</b>                 | 5426   |
| <b>No4 :</b>                  | 1  |
| <b>Host :</b>                 | Rabbit   |
| <b>Modifications :</b>        | Phospho  |

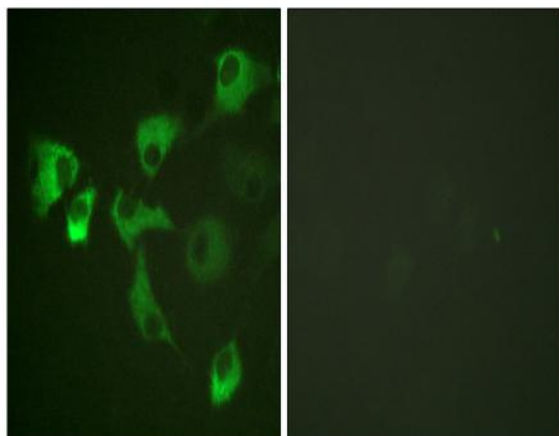
## Products Images



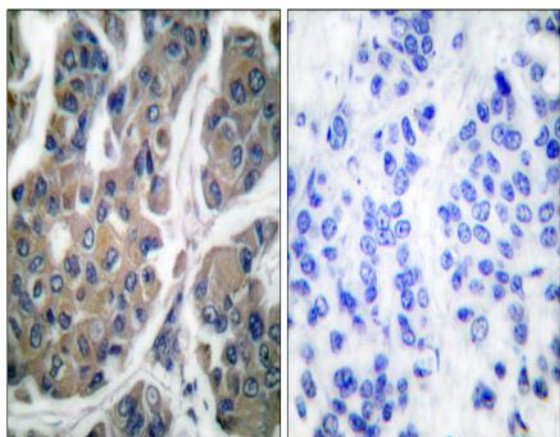
Western Blot analysis of SKOV3 cells using Phospho-EF-2 (T56) Polyclonal Antibody diluted at 1:2000



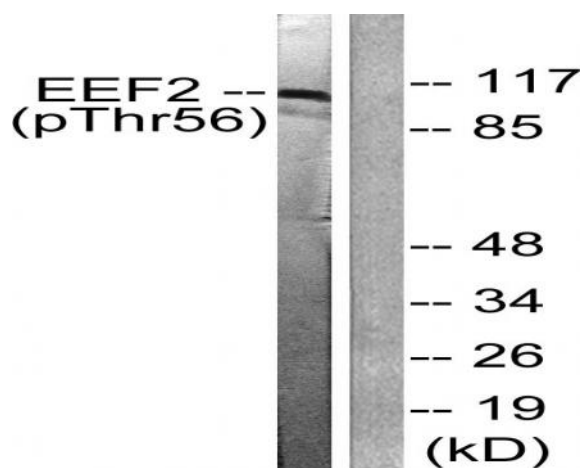
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eEF2 (Phospho-Thr56) Antibody



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.