Best Tools for immunology Research

eEF2K (phospho Ser366) Polyclonal Antibody

Catalog No :	YP0599
Reactivity :	Human;Rat
Applications :	WB;IHC;IF;ELISA
Target :	eEF2K
Fields :	>>AMPK signaling pathway;>>Oxytocin signaling pathway
Gene Name :	EEF2K
Protein Name :	Eukaryotic elongation factor 2 kinase
Human Gene Id :	29904
Human Swiss Prot No :	O00418
Mouse Swiss Prot No :	O08796
Rat Gene Id :	25435
Rat Swiss Prot No :	P70531
Immunogen :	The antiserum was produced against synthesized peptide derived from human eEF2K around the phosphorylation site of Ser366. AA range:331-380
Specificity :	Phospho-eEF2K (S366) Polyclonal Antibody detects endogenous levels of eEF2K protein only when phosphorylated at S366.
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. ELISA: 1:40000.. IF 1:50-200
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 : 105kD

Cell Pathway : AMPK

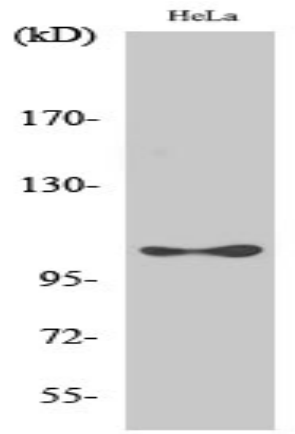
Background : This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + [elongation factor 2] = ADP + [elongation factor 2] phosphate.,enzyme regulation:Undergoes calcium/calmodulin-dependent intramolecular autophosphorylation, and this results in it becoming partially calcium/calmodulin-independent.,function:Phosphorylates eukaryotic elongation factor-2. Binds calmodulin.,similarity:Belongs to the protein kinase superfamily. Alpha-type protein kinase family.,similarity:Contains 1 alpha-type protein kinase domain.,subunit:Monomer or homodimer .,

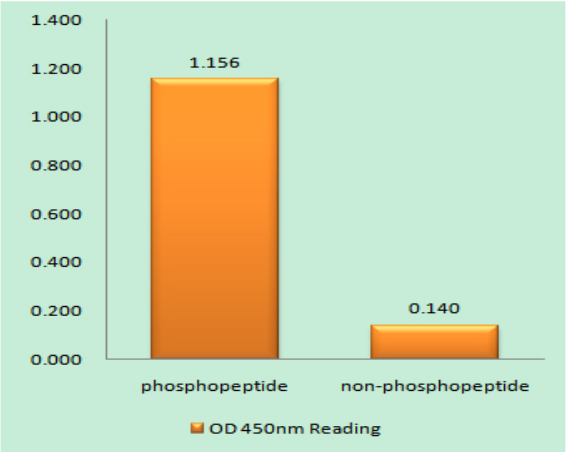
Subcellular Location : cytoplasm,cytosol,postsynaptic density,

Expression : Epithelium,Glial tumor,Lymph,T-cell,

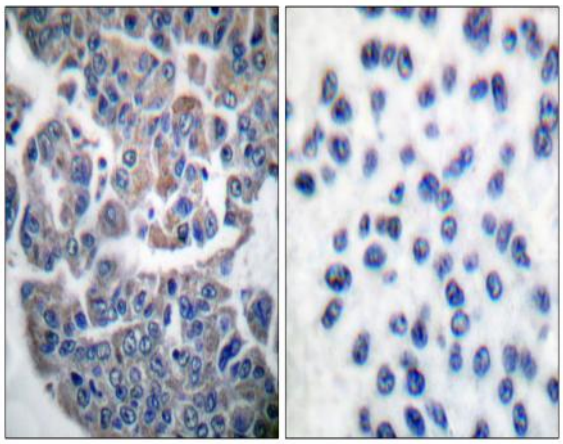
Products Images



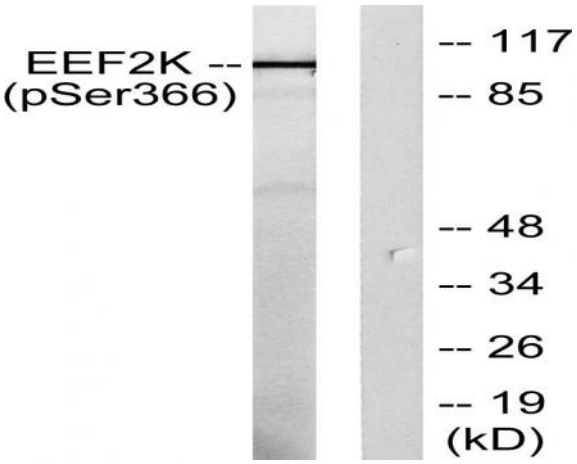
Western Blot analysis of various cells using Phospho-eEF2K (S366) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using eEF2K (Phospho-Ser366) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using eEF2K (Phospho-Ser366) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with serum 10% 15', using eEF2K (Phospho-Ser366) Antibody. The lane on the right is blocked with the phospho peptide.