



eEF2K Monoclonal Antibody

Catalog No	YP-mAb-14737
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	EEF2K
Immunogen	The antiserum was produced against synthesized peptide derived from human eEF2K. AA range:331-380
Specificity	eEF2K Monoclonal Antibody detects endogenous levels of eEF2K protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	eEF-2K;eEF-2 kinase;eEF 2K;eEF 2 kinase;EC:2.7.11.20;eEF2K;Eukaryotic elongation factor 2 kinase;Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase
Observed Band	105kD
Calculated Molecular Weight	105kD
Cell Pathway	cytoplasm,cytosol,postsynaptic density,
Tissue Specificity	Epithelium,Glial tumor,Lymph,T-cell,
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 .,

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],

matters needing attention

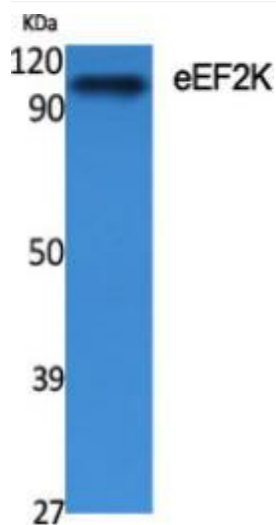
Avoid repeated freezing and thawing!

Usage suggestions

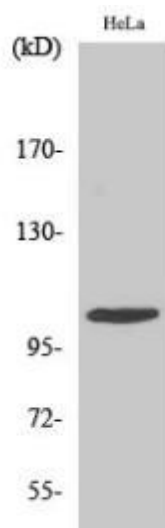
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



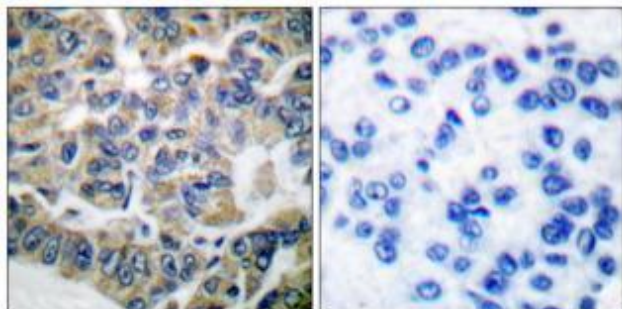
Products Images



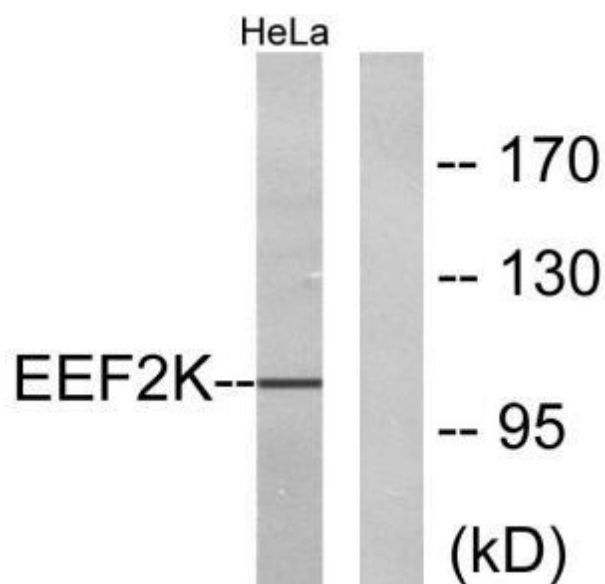
Western Blot analysis of various cells using eEF2K Monoclonal Antibody diluted at 1:500



Western Blot analysis of HeLa cells using eEF2K Monoclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using eEF2K Monoclonal Antibody. The picture on the right is blocked with the synthesized peptide.



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