10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-EEF2K Antibody [KO/KD Validated]

Catalog # AP60452

Product Information

Application	WB, IHC
Primary Accession	O00418
Reactivity	Human, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	82144

Additional Information

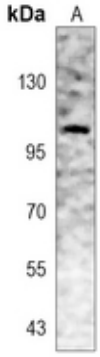
Gene ID	29904
Other Names	Eukaryotic elongation factor 2 kinase; eEF-2 kinase; eEF-2K; Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EEF2K. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

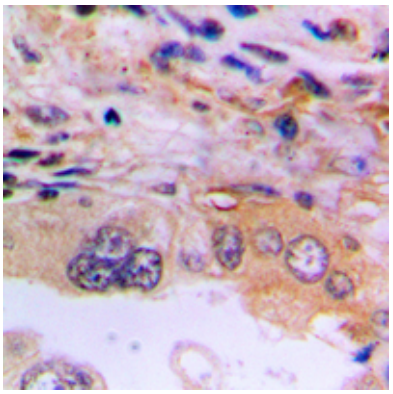
Protein Information

Name	EEF2K
Function	Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. Upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. In turn, the rate of protein synthesis is reduced.

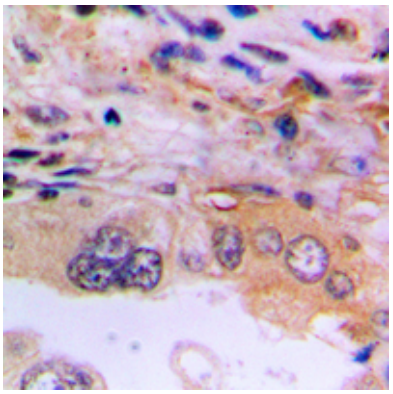
Images

Western blot analysis of EEF2K expression in MCF7 (A) whole cell lysates. (Predicted band size: 82 kD; Observed band size: 105 kD)

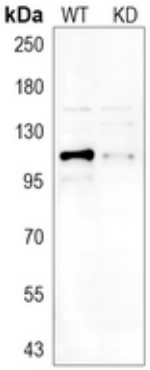




Immunohistochemical analysis of EEF2K staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Western blot analysis of EEF2K expression in wild type (WT) and knockdown (KD) HeLa cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.