

Product datasheet for **TA300638**

EEF2K Rabbit Monoclonal Antibody [Clone ID: EP724Y]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP724Y
Applications:	WB
Recommended Dilution:	WB: 1:50000; IP: 1:20
Reactivity:	Mouse, Rat, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in the Calmodulin binding region of human eEF2 was used as immunogen.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82 kDa
Gene Name:	eukaryotic elongation factor 2 kinase
Database Link:	NP_037434 Entrez Gene 13631 Mouse Entrez Gene 25435 Rat Entrez Gene 29904 Human O00418



[View online »](#)

Background:

Eukaryotic elongation factor-2 kinase (eEF-2k) previously known as Ca²⁺/calmodulin-dependent protein kinase III, is an abundant cytoplasmic protein highly specific for elongation factor-2 (eEF-2) (1). Phosphorylation of eEF-2 by eEF-2 kinase on specific threonine residues results in the inactivation of eEF-2 and in termination of mRNA translation (2). The activity of eEF2 kinase is not only dependent upon Ca²⁺ ions, calmodulin (CaM) and insulin, but is also regulated both negatively and positively by phosphorylation by different protein kinases (AMPK, S6K1, p90 RSK) (3-4). There is also evidence that eEF-2 phosphorylation is involved in the regulation of cell cycle progression, cellular differentiation, oogenesis and malignant tumors (5-6).

Synonyms:

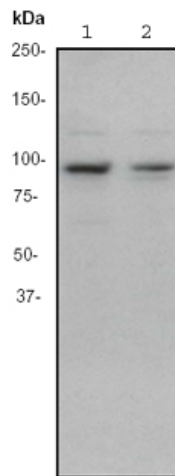
eEF-2K; HSU93850

Note:

Is unsuitable for Flow Cyt, ICC or IHC-P.

Protein Families:

Druggable Genome, Protein Kinase

Product images:

Western blot - EEF2K antibody [EP724Y]; All lanes : Anti-EEF2K antibody [EP724Y] at 1/50000 dilution. Lane 1 : HeLa cell lysate. Lane 2 : Jurkat cell lysate. Lysates/proteins at 10 ug per lane. Secondary. Goat anti-rabbit HRP at 1/2000 dilution. Predicted band size : 82 kDa. Observed band size : 95 kDa.