

# EEF2K (Ser366) Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22222a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O00418</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB56632
<b>Calculated MW</b>	82144

## Additional Information

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<b>Gene ID</b>	29904
<b>Other Names</b>	Eukaryotic elongation factor 2 kinase, eEF-2 kinase, eEF-2K, 2.7.11.20, Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase, EEF2K
<b>Target/Specificity</b>	This EEF2k (Ser366) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 337-371 amino acids from human EEF2k.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	EEF2K (Ser366) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	EEF2K
<b>Function</b>	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.

## Background

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.

## References

Ryazanov A.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:4884-4889(1997).

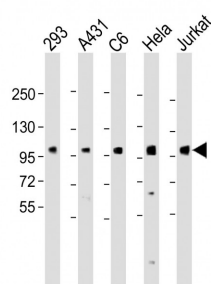
Martin J.,et al.Nature 432:988-994(2004).

Pavur K.S.,et al.Biochemistry 39:12216-12224(2000).

Knebel A.,et al.EMBO J. 20:4360-4369(2001).

Wang X.,et al.EMBO J. 20:4370-4379(2001).

## Images



All lanes : Anti-EEF2k Antibody at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: C6 whole cell lysate Lane 4: HeLa whole cell lysate Lane 5: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 82 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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