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EEF2K (Ser366) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22222a

Product Information

Application	WB, E
Primary Accession	O00418
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56632
Calculated MW	82144

Additional Information

Gene ID	29904
Other Names	Eukaryotic elongation factor 2 kinase, eEF-2 kinase, eEF-2K, 2.7.11.20, Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase, EEF2K
Target/Specificity	This EEF2k (Ser366) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 337-371 amino acids from human EEF2k.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	EEF2K (Ser366) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

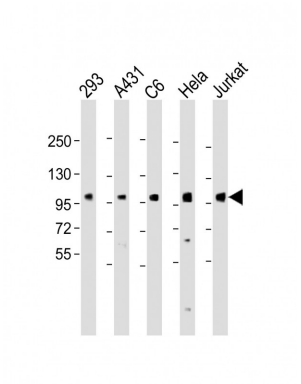
Background

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).
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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'.