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Phospho-eEF2k (Ser366) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3916a

Product Information

Application	WB, E
Primary Accession	O00418
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56631
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 Phospho-eEF2k (Ser366) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 337-371 amino acids from the human region of human EEF2k.
Dilution	WB~~1:500 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	Phospho-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.

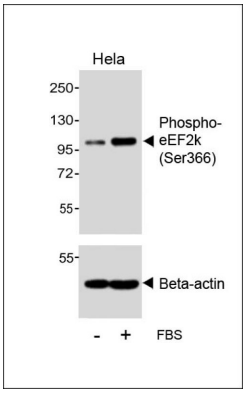
Background

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.

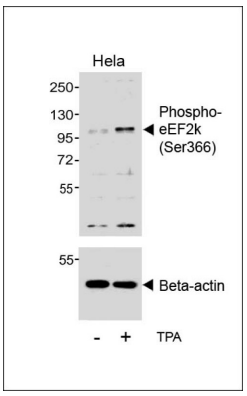
References

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

Images



Western blot analysis of lysates from Hela cell line, untreated or treated with 10% FBS, using 456632102(Cat. #AP3916a)(upper) or Beta-actin (lower).



Western blot analysis of lysates from Hela cell line, untreated or treated with TPA, 200nM, using (Cat. #AP3916a)(upper) or Beta-actin (lower).