

Rabbit anti-Human, Mouse eEF2k Polyclonal Antibody | anti-eEF2k antibody

Phospho-eEF2k (Ser366) Antibody

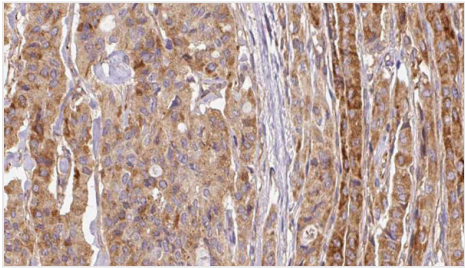
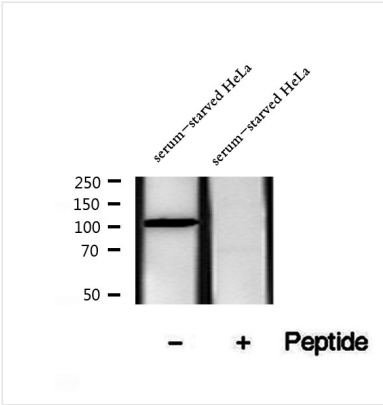
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321324	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

eEF2k; Polyclonal Antibody; Phospho-eEF2k (Ser366) Antibody; C86191; Calcium/calmodulin dependent eukaryotic elongation factor 2; Calcium/calmodulin dependent eukaryotic elongation factor 2 kinase; Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase; Calmodulin dependent protein kinase III; cb365; EC 2.7.11.20; eEF 2 kinase; eEF 2K; eEF-2 kinase; eEF-2K; Eef2k; EEF2K protein; EF2K_HUMAN; Elongation factor 2 kinase; Eukaryotic elongation factor 2 kinase; fa04b08; HSU93850; kinase eEF2K; MGC45041; SMEF2K; wu:fa04b08; zgc:100973; anti-eEF2k antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-eEF2k (Ser366) antibody detects endogenous levels of eEF2k.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	725
Applicable Applications for anti-eEF2k antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human eEF2k around the phosphorylation site of Ser366.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (92%), Dog (92%)
Conjugation	Unconjugated
Epitope	Phospho Ser366
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321324 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of serum-starved HeLa cells, using Phospho-eEF2k (Ser366) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-eEF2k antibody	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. Subunit Structure: Monomer or homodimer (Probable). Interacts with Calmodulin/CALM1; this interaction is strictly required for phosphorylation activity (PubMed:11015200). Post-translational Modifications: Autophosphorylated at multiple residues, Thr-348 being the major site. Phosphorylated by AMP-activated protein kinase AMPK at Ser-398 leading to EEF2K activation and protein synthesis inhibition. Phosphorylated by TRPM7 at Ser-78 resulting in improved protein stability, higher EEF2 phosphorylated and subsequently reduced rate of protein synthesis. Phosphorylation by other kinases such as CDK1 and MAPK13 at Ser-359 or RPS6KA1 and RPS6KB1 at Ser-366 instead decrease EEF2K activity and promote protein synthesis. Similarity: Belongs to the protein kinase superfamily. Alpha-type protein kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9558749
NCBI GeneID	29904
NCBI Accession #	NP_037434.1
NCBI GenBank Nucleotide #	NM_013302.3
UniProt Accession #	O00418; Q8N588
Molecular Weight	Observed: 105 kDa Predicted: 83 kDa
NCBI Official Full Name	eukaryotic elongation factor 2 kinase
NCBI Official Synonym Full Names	eukaryotic elongation factor 2 kinase
NCBI Official Symbol	EEF2K
NCBI Official Synonym Symbols	eEF-2K; CaMKIII; HSU93850
NCBI Protein Information	eukaryotic elongation factor 2 kinase
UniProt Protein Name	Eukaryotic elongation factor 2 kinase
UniProt Gene Name	EEF2K
UniProt Synonym Gene Names	eEF-2 kinase; eEF-2K

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eef2k-antibody-immunohistochemistry-western-blot-elisa/321324>