

Anti-eEF2K (Ser-500), Phosphospecific Antibody



Product Details

Available Variants	100 µL (SKU:EP4451)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	EEF2K
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-eEF2K (Ser-500) synthetic peptide (coupled to carrier protein) corresponds to amino acids surrounding Ser-500 in human eEF2K. This sequence is well conserved in rat and mouse eEF2K, and has low homology to other proteins.
Specificity	The antibody detects a 105 kDa* protein corresponding to the molecular mass of eEF2K on SDS-PAGE immunoblots of human recombinant eEF2K autophosphorylated in the presence of Ca ²⁺ and Calmodulin. This reactivity is removed after lambda phosphatase treatment. In addition, the antibody detects eEF2K after calyculin A treatment of mouse C2C12 cells, but not in control cells.
Molecular Weight	105
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at

-20°C.

UniProt ID [O00418](#)

Country of Origin United States

Shipping Blue Ice

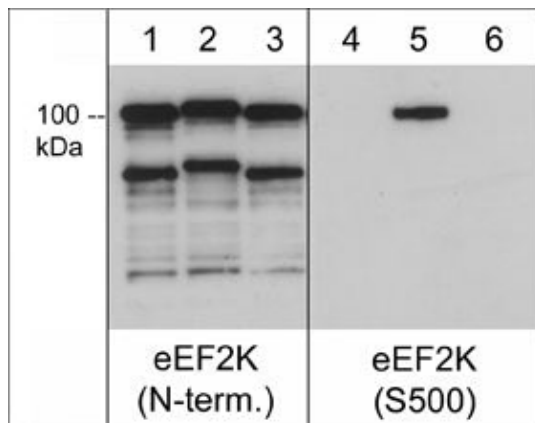
Expiration After date of receipt, stable for at least 1 year at -20°C.

Usage Statement For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.

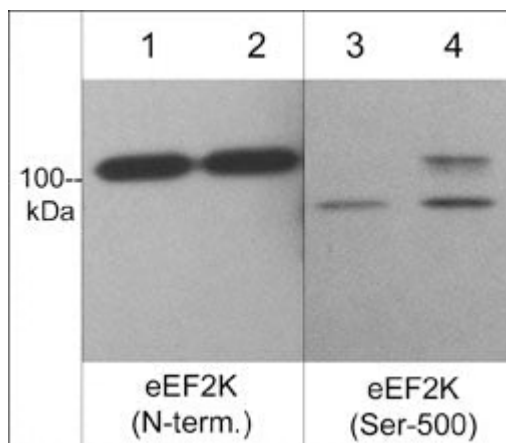
Post Translational Modification Type Phosphorylated

Post Translational Modification Residue Ser-500

Product Images



Recombinant human eEF2K untreated (lanes 1 & 4), auto-phosphorylated in the presence of Ca²⁺ and Calmodulin (lanes 2 & 5), and dephosphorylated with lambda phosphatase (lanes 3 & 6). The blots were probed with rabbit polyclonal anti-eEF2K (N-terminus) (lanes 1-3) or anti-eEF2K (Ser-500) (lanes 4-6). (Images provided by the laboratory of Dr. Kevin Dalby in the Dept. of Pharmacy at the University of Texas at Austin.)



Western blot image of C2C12 untreated (lanes 1 & 3) or treated with calyculin A (100 nM) for 30 min. (lanes 2 & 4). The blot was probed with anti-eEF2K (N-terminus) (lanes 1 & 2) and anti-eEF2K (Ser-500) (lanes 3 & 4).

Product Page URL: www.antibodiesinc.com/products/anti-eef2k-ser-500-phosphospecific-antibody-ep4451



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