www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-eEF2K (Ser-78), Phosphospecific Antibody

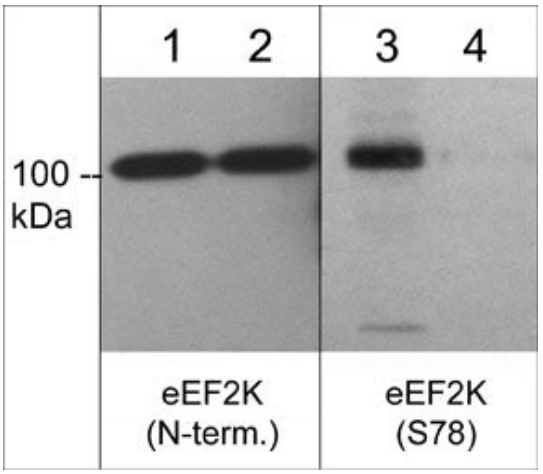
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:EP4391)
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% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-eEF2K (Ser-78) synthetic peptide (coupled to carrier protein) corresponds to amino acids surrounding Ser-78 in human eEF2K. This sequence is well conserved in rat and mouse eEF2K, and has low homology to other proteins.
Specificity	This antibody detects a 105 kDa* protein corresponding to the molecular mass of eEF2K on SDS-PAGE immunoblots of mouse C2C12 and Jurkat cells treated with Calyculin A, and this reactivity is removed after lambda phosphatase treatment.
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 UniProt Summary: 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.
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-78
NCBI Gene ID	29904

Product Images



Western blot image of C2C12 treated with calyculin A (100 nM) for 30 min. (lanes 1 & 3), then the blot was treated with lambda phosphatase (lanes 2 & 4). The blot was probed with anti-eEF2K (N-terminus) at 1:500 (lanes 1 & 2) and anti-eEF2K (Ser-78) (EP4391) at 1:1000.