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Mouse Eef2k Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14838a

Product Information

Application	WB, E
Primary Accession	O08796
Other Accession	NP_031934.1
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34759
Calculated MW	81739
Antigen Region	178-205

Additional Information

Gene ID	13631
Other Names	Eukaryotic elongation factor 2 kinase, eEF-2 kinase, eEF-2K, Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase, Eef2k
Target/Specificity	This Mouse Eef2k antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 178-205 amino acids from the N-terminal region of mouse Eef2k.
Dilution	WB~~1:1000 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	Mouse Eef2k Antibody (N-term) 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 (PubMed:34815424, PubMed:9144159). 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 (PubMed:34815424, PubMed:9144159). In turn, the rate of protein synthesis is reduced (PubMed:34815424, PubMed:9144159).

Tissue Location Ubiquitously expressed (PubMed:9144159). Particularly abundant in skeletal muscle and heart (PubMed:9144159)

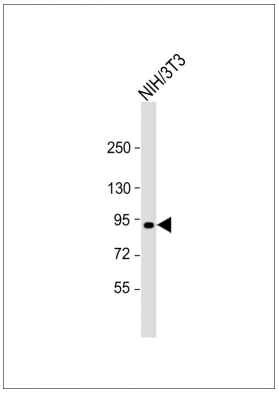
Background

Phosphorylates eukaryotic elongation factor-2. Binds calmodulin (By similarity).

References

Khan, A.A., et al. Am. J. Pathol. 177(1):481-492(2010)
Shen, Q., et al. Parkinsonism Relat. Disord. 15(7):525-531(2009)
Py, B.F., et al. Autophagy 5(3):393-396(2009)
Im, H.I., et al. PLoS ONE 4 (10), E7424 (2009) :
Crawley, S.W., et al. Biochim. Biophys. Acta 1784(6):908-915(2008)

Images



Anti-Mouse Eef2k Antibody (N-term) at 1:1000 dilution + NIH/3T3 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'.