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Mouse Eef2k Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14838a

Specification

Mouse Eef2k Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O08796

Mouse Eef2k Antibody (N-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Eef2k Antibody (N-term) Blocking Peptide - Protein Information

Name Eef2k

Function
Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation (PubMed:9144159, PubMed:34815424). 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:9144159, PubMed:34815424). In turn, the rate of protein synthesis is reduced (PubMed:9144159, PubMed:34815424).

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

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Mouse Eef2k Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Eef2k Antibody (N-term) Blocking Peptide - Images

Mouse Eef2k Antibody (N-term) Blocking Peptide - Background

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

Mouse Eef2k Antibody (N-term) Blocking Peptide - 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)