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CLK4 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7532a

Specification

CLK4 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9HAZ1

CLK4 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 57396

Other Names
Dual specificity protein kinase CLK4, CDC-like kinase 4, CLK4

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7532a was selected from the N-term region of human CLK4 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CLK4 Antibody (N-term) Blocking Peptide - Protein Information

Name CLK4

Function
Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine- rich (SR) proteins of the spliceosomal complex and may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates SRSF1 and SRSF3. Required for the regulation of alternative splicing of MAPT/TAU. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.

Cellular Location
Nucleus.

Tissue Location
Expressed in liver, kidney, heart, muscle, brain and endothelial cells.

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CLK4 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CLK4 Antibody (N-term) Blocking Peptide - Images

CLK4 Antibody (N-term) Blocking Peptide - Background

CLK4 belongs to the CDC2-like protein kinase (CLK) family. This protein kinase can interact with and phosphorylate the serine- and arginine-rich (SR) proteins, which are known to play an important role in the formation of spliceosomes, and thus may be involved in the regulation of alternative splicing. Studies in the Israeli sand rat Psammomys obesus suggested that the ubiquitin-like 5 (UBL5/BEACON), a highly conserved ubiquitin-like protein, may interact with and regulate the activity of this kinase.

CLK4 Antibody (N-term) Blocking Peptide - References

McNally, T., et al., Protein Sci. 12(7):1562-1566 (2003).Katsu, R., et al., J. Biol. Chem. 277(46):44220-44228 (2002).Schultz, J., et al., Genomics 71(3):368-370 (2001).