

**CLK4 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7532a****Specification**

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**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](/product/products/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.

### **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).