

CLK2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16732c**Specification**

CLK2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P49760](#)**CLK2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1196**Other Names**

Dual specificity protein kinase CLK2, CDC-like kinase 2, CLK2

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.

CLK2 Antibody (Center) Blocking Peptide - Protein Information**Name** CLK2**Function**

Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine- rich (SR) proteins of the spliceosomal complex. May be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing and can cause redistribution of SR proteins from speckles to a diffuse nucleoplasmic distribution. Acts as a suppressor of hepatic gluconeogenesis and glucose output by repressing PPARGC1A transcriptional activity on gluconeogenic genes via its phosphorylation. Phosphorylates PPP2R5B thereby stimulating the assembly of PP2A phosphatase with the PPP2R5B-AKT1 complex leading to dephosphorylation of AKT1. Phosphorylates: PTPN1, SRSF1 and SRSF3. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells. Phosphorylates PAGE4 at several serine and threonine residues and this phosphorylation attenuates the ability of PAGE4 to potentiate the transcriptional activator activity of JUN (PubMed:28289210).

Cellular Location

Nucleus. [Isoform 2]: Nucleus speckle. Note=Co-localizes with serine- and arginine-rich (SR) proteins in the nuclear speckles

Tissue Location

Endothelial cells (PubMed:19168442). Expressed in androgen-dependent prostate cancer cells (PubMed:28289210)

CLK2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CLK2 Antibody (Center) Blocking Peptide - Images

CLK2 Antibody (Center) Blocking Peptide - Background

This gene encodes a member of the CLK family of dualspecificity protein kinases. CLK family members have been shown to interact with, and phosphorylate, serine- and arginine-rich (SR) proteins of the spliceosomal complex, which is a part of the regulatory mechanism that enables the SR proteins to control RNA splicing. Note that this gene is distinct from TELO2 gene (GeneID:9894), which shares CLK2 and hCLK2 symbol aliases in common with this gene, but encodes a protein that is involved in telomere length regulation.

CLK2 Antibody (Center) Blocking Peptide - References

Nam, S.Y., et al. J. Biol. Chem. 285(41):31157-31163(2010) Eisenreich, A., et al. Circ. Res. 104(5):589-599(2009) Rendtlew Danielsen, J.M., et al. J. Biol. Chem. 284(7):4140-4147(2009) Castle, J.C., et al. Nat. Genet. 40(12):1416-1425(2008) Jin, J., et al. Curr. Biol. 14(16):1436-1450(2004)