

### **CLK2 Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50695

### **Specification**

### **CLK2 Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Antigen Region

WB
P49760
Human, Mouse, Rat
Rabbit
Polyclonal
60 18 KDa
4-35

## **CLK2 Antibody - Additional Information**

**Gene ID 1196** 

#### **Other Names**

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

### **Dilution**

WB~~1:1000

#### **Format**

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

### **Storage Conditions**

-20°C

### **CLK2 Antibody - 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:<a

href="http://www.uniprot.org/citations/28289210" target="\_blank">28289210</a>).





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#### **Cellular Location**

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

#### **Tissue Location**

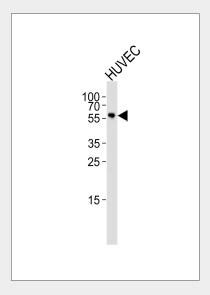
Endothelial cells (PubMed:19168442). Expressed in androgen-dependent prostate cancer cells (PubMed:28289210)

### **CLK2 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

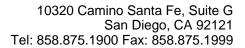
## **CLK2 Antibody - Images**



Western blot analysis of lysate from HUVEC cell line, using CLK2 Antibody (AP50695). AP50695 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

#### CLK2 Antibody - Background

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splicing of tissue factor (F3) pre-mRNA in endothelial cells.

# **CLK2 Antibody - References**

Hanes J.J., et al.J. Mol. Biol. 244:665-672(1994). Winfield S.L., et al.Genome Res. 7:1020-1026(1997). Gregory S.G., et al.Nature 441:315-321(2006). Lee K., et al.J. Biol. Chem. 271:27299-27303(1996). Duncan P.I., et al.Exp. Cell Res. 241:300-308(1998).