

Datasheet for ABIN7553501
CLK2 Protein (AA 1-499) (His tag)



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Overview

Quantity:	1 mg
Target:	CLK2
Protein Characteristics:	AA 1-499
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLK2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinant CLK2 Protein expressed in mammalian cells.
Sequence:	<p>MPHPRRYHSS ERGSRGSYRE HYRSRKHKRR RSRWSSSSD RTRRRRREDS YHVRSSSYD DRSSDRRVYD RRYCGSYRRN DYSRDRGDY YTDYRHSYE YQRENSYSR QRSSRRKHRR RRRRSRTFSR SSSQHSSRA KSVEDDAEGH LIYHVGDWLQ ERYEIVSTLG EGTFGRRVQC VDHRRGGARV ALKIIKNVEK YKEAARLEIN VLEKINEKDP DNKNLCVQMF DWFYDYGHMC ISFELLGLST FDFLKDNNYL PYPHQVRHM AFQLCQAVKF LHDNKLTHD LKPENILFVN SDYELTYNLE KKRDESVKS TAVRVVDFGS ATFDHEHHST IVSTRHYRAP EVILELGSWQ PCDVWSIGCI IFEYYVGFTL FQTHDNREHL AMMERILGPI PSMIRKTRK QKYFYRGRLD WDENTSAGRY VRENCKPLRR YLTSEAEHH QLFDLIESML EYEPKRLTL GEALQHPFFA RLRAEPPNKL WDSSRDISR Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

CLK2

Alternative Name:

CLK2 ([CLK2 Products](#))

Background:

Dual specificity protein kinase CLK2 (EC 2.7.12.1) (CDC-like kinase 2),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). {ECO:0000269|PubMed:10480872,

Target Details

ECO:0000269|PubMed:19168442, ECO:0000269|PubMed:28289210,
ECO:0000269|PubMed:8910305, ECO:0000269|PubMed:9637771}.

Molecular Weight: 60.1 kDa

UniProt: [P49760](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months