CLK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLK2, Polyclonal Antibody
Full Product Name	CLK2 Antibody
Product Gene Name	anti-CLK2 antibody
Product Synonym Names	Dual specificity protein kinase CLK2; CDC-like kinase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of CLK2 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	60,090 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (155232659..155243281, complement). Location: 1q21
OMIM	602989
3D Structure	ModBase 3D Structure for P49760
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CLK2. The exact sequence is proprietary.
Product Categories/Family for anti-CLK2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CLK2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CLK2 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-CLK2 antibody	MBS8580446 is an antibody targeting CLK2. Also known as CLK2 Antibody. Reactive in Human, Monkey. Host: Rabbit. Rabbit polyclonal antibody to CLK2
Other Notes	Small volumes of anti-CLK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLK2. It may not necessarily be applicable to this product.

NCBI GI #	47717134
NCBI GeneID	1196

NCBI Accession #	NP_003984.2
UniProt Primary Accession #	P49760
UniProt Secondary Accession #	Q96CQ0; B1AVS9; B5MBX6
UniProt Related Accession #	P49760
GenBank Nucleotide #	NM_003993.2
NCBI Official Full Name	dual specificity protein kinase CLK2
NCBI Official Synonym Full Names	CDC-like kinase 2
NCBI Official Symbol	CLK2
NCBI Official Synonym Symbols	hCLK2
UniProt Protein Name	Dual specificity protein kinase CLK2
UniProt Synonym Protein Names	CDC-like kinase 2
Protein Family	Dual specificity protein kinase
UniProt Gene Name	CLK2
UniProt Entry Name	CLK2_HUMAN
NCBI Protein Information	dual specificity protein kinase CLK2; CLK kinase
NCBI Summary for CLK2	This gene encodes a member of the CLK family of dual specificity 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. [provided by RefSeq, Jul 2008]
UniProt Comments for CLK2	CLK2: 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. Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. Lammer subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, dual-specificity (non-receptor); Kinase, protein; Protein kinase, CMGC; EC 2.7.12.1; CMGC group; CLK family Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; nuclear speck; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; protein serine/threonine/tyrosine kinase activity; ATP binding Biological Process: response to retinoic acid; peptidyl-tyrosine phosphorylation; regulation of RNA splicing; protein amino acid autophosphorylation; negative regulation of gluconeogenesis; response to ionizing radiation; protein amino acid phosphorylation
Research Articles on CLK2	**1.** LAMMER/Cdc2-like kinase, represented by Doa and its mammalian homolog CLK2, is a critical and conserved component in the regulatory program of the mitosis-to-meiosis switch

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