CLK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLK2, Polyclonal Antibody
Full Product Name	CLK2, ID (CLK2, Dual specificity protein kinase CLK2, CDC-like kinase 2) (MaxLight 490)
Product Gene Name	anti-CLK2 antibody
Product Synonym Names	CLK2; Dual specificity protein kinase CLK2; CDC-like kinase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	CLK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-319 amino acids from the Central region of human CLK2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-CLK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CLK2 antibody	Western Blot (WB), FLISA
Application Notes for anti-CLK2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CLK2 antibody	MaxLight490 is a new Blue-Green photostable dye conjugate comparable to DyLight488, Alexa Fluor488 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (491nm); Emission (515nm); Extinction Coefficient 73,000.
Product References and Citations for anti-CLK2 antibody	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).

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.
Searchable Terms for CLK2 purchase	MBS6286806 is an antibody targeting CLK2. Also known as CLK2, ID (CLK2, Dual specificity protein kinase CLK2, CDC-like kinase 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

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
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/clk2/6286806