CDKL2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDKL2, Monoclonal Antibody
Full Product Name	CDKL2 (Cyclin-dependent Kinase-like 2, Protein Kinase p56 KKIAMRE, Serine/Threonine-protein Kinase KKIAMRE) (MaxLight 750)
Product Gene Name	anti-CDKL2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1F6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDKL2.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	54kDa
OMIM	603442
3D Structure	ModBase 3D Structure for Q92772
Immunogen	Partial recombinant corresponding to aa394-493 from CDKL2 (NP_003939) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LKDCSNVSVDHTRNPSVAIPPLTHNLSAVAPSINSGMGTETIPIQGYRVDEKTKKCSIPFVKPNRHSPSGIYNINVTTLVSGPPLSDDSGADLPQMEHQH
Conjugate	MaxLight750
Product Categories/Family for anti-CDKL2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDKL2 antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CDKL2 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CDKL2 antibody	MBS6232082 is an antibody targeting CDKL2. Also known as CDKL2 (Cyclin-dependent Kinase-like 2, Protein Kinase p56 KKIAMRE, Serine/Threonine-protein Kinase KKIAMRE) (MaxLight 750). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-CDKL2 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 CDKL2. It may not necessarily be applicable to this product.

NCBI GI #	4505569
NCBI GeneID	8999
NCBI Accession #	NP_003939
UniProt Primary Accession #	Q92772
UniProt Related Accession #	Q92772
GenBank Nucleotide #	NM_003948
NCBI Official Full Name	cyclin-dependent kinase-like 2 isoform 1
NCBI Official Synonym Full Names	cyclin dependent kinase like 2
NCBI Official Symbol	CDKL2
NCBI Official Synonym Symbols	P56; KKIAMRE
UniProt Protein Name	Cyclin-dependent kinase-like 2
UniProt Synonym Protein Names	Protein kinase p56 KKIAMRE; Serine/threonine-protein kinase KKIAMRE
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDKL2
UniProt Entry Name	CDKL2_HUMAN
NCBI Protein Information	cyclin-dependent kinase-like 2
NCBI Summary for CDKL2	This gene product is a member of a large family of CDC2-related serine/threonine protein kinases. It accumulates primarily in the cytoplasm, with lower levels in the nucleus. [provided by RefSeq, Jul 2008]
UniProt Comments for CDKL2	CDKL2: a protein kinase of the CDKL family. Accumulates primarily in the cytoplasm, with a lower level in the nucleus. Protein type: Protein kinase, CMGC; Kinase, protein; Cell cycle regulation; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.22; CMGC group; CDKL family Chromosomal Location of Human Ortholog: 4q21.1 Cellular Component: nucleoplasm; centrosome; cytoplasm; nucleus Molecular Function: cyclin-dependent protein kinase activity; ATP binding; protein kinase activity Biological Process: regulation of cell cycle; signal transduction; protein amino acid phosphorylation; sex differentiation
Research Articles on CDKL2	**1.** Results showed that the methylation levels of CDKL2 were higher in hepatocellular carcinoma (HCC) cell lines and tissues but the mRNA expression levels decreased both in HCC tissues and cell lines. CDKL2 status seems to correlate with tumor size and may play an important role in hepatocarcinogenesis.
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/monoclonal-human-antibody/cdkl2/6232082