CDKL1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDKL1, Monoclonal Antibody
Full Product Name	CDKL1 (Cyclin-dependent Kinase-like 1 (CDC2-related Kinase), P42, KKIALRE) (AP)
Product Gene Name	anti-CDKL1 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3G8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes human CDKL1.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42 kDa
OMIM	603441
3D Structure	ModBase 3D Structure for Q00532
Immunogen	Recombinant protein corresponding to aa259-358 from human CDKL1 with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	YPALGLLKGCLHMDPTQRLTCEQLLHHPYFENIREIEDLAKEHNKPTRKTLRKSRKHHCFTETSKLQYLPQLTGSSILPALDNKKYYCDTKKLNYRFPNI
Conjugate	AP
Product Categories/Family for anti-CDKL1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDKL1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CDKL1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDKL1 antibody	This gene product is a member of a large family of CDC2-related serine/threonine protein kinases. It accumulates primarily in the nucleus. Alternative splice variants encoding different protein isoforms have been described, but their full-length nature has not been determined.

Other Notes	Small volumes of anti-CDKL1 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 CDKL1 purchase	MBS6134767 is an antibody targeting CDKL1. Also known as CDKL1 (Cyclin-dependent Kinase-like 1 (CDC2-related Kinase), P42, KKIALRE) (AP). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKL1. It may not necessarily be applicable to this product.

NCBI GI #	37596297
NCBI GeneID	8814
NCBI Accession #	NP_004187
UniProt Primary Accession #	Q00532
UniProt Secondary Accession #	Q2M3A4; Q6QUA0; Q8WXQ5
UniProt Related Accession #	Q00532
GenBank Nucleotide #	NM_004196.4
NCBI Official Full Name	cyclin-dependent kinase-like 1 isoform 1
NCBI Official Synonym Full Names	cyclin dependent kinase like 1
NCBI Official Symbol	CDKL1
NCBI Official Synonym Symbols	P42; KKIALRE
UniProt Protein Name	Cyclin-dependent kinase-like 1
UniProt Synonym Protein Names	Protein kinase p42 KKIALRE; Serine/threonine-protein kinase KKIALRE
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDKL1
UniProt Entry Name	CDKL1_HUMAN
NCBI Protein Information	cyclin-dependent kinase-like 1
NCBI Summary for CDKL1	This gene product is a member of a large family of CDC2-related serine/threonine protein kinases. It accumulates primarily in the nucleus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]
UniProt Comments for CDKL1	CDKL1: a protein kinase of the CDKL family. Accumulates primarily in the nucleus. Protein type: Kinase, protein; EC 2.7.11.22; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CMGC; Cell cycle regulation; CMGC group; CDKL family Chromosomal Location of Human Ortholog: 14q21.3 Cellular Component: cytoplasm; nucleus Molecular Function: cyclin-dependent protein kinase activity; ATP binding Biological Process: regulation of cell cycle; heart development; protein amino acid phosphorylation
Research Articles on CDKL1	**1.** CDKL1 was overexpressed in breast cancer patients and had a positive detection efficiency of 77% (144/186).

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