CDKL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDKL1, Polyclonal Antibody
Full Product Name	CDKL1 Antibody
Product Gene Name	anti-CDKL1 antibody
Product Synonym Names	P42; KKIALRE
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total CDKL1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	41,671 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (50796720..50862617, complement). Location: 14q21.3
OMIM	603441
3D Structure	ModBase 3D Structure for Q00532
Immunogen	Synthetic peptide corresponding to residues near the C terminal of human CDKL1
Product Categories/Family for anti-CDKL1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CDKL1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CDKL1 antibody	WB: 1:200-1:1000 IHC: 1: 20-100
Related Product Information for anti-CDKL1 antibody	The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated by the MAP kinases ERK 1 and ERK 2. ERK proteins are regulated by dual phosphorylation at specific tyrosine and threonine sites mapping within a characteristic Thr-Glu-Tyr motif. The protein kinase p56 KKIAMRE is distantly related to the MAP kinase group of proteins and is closely related to p42 KKIALRE. KKIAMRE is predominantly expressed in testis, kidney, brain and lung. KKIAMRE contains the conserved MAP kinase dual phosphorylation motif in the sequence Thr-Asp-Tyr and is activated by treatment of cells by EGF. However, unlike other MAP kinases, the EGF-stimulated kinase activity does not require phosphorylation of KKIAMRE and KKIALRE in the Thr-Asp-Tyr motif
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	MBS8594962 is an antibody targeting CDKL1. Also known as CDKL1 Antibody. Reactive in Human. Host: Rabbit.

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_004187.2
UniProt Primary Accession #	Q00532
UniProt Secondary Accession #	Q2M3A4; Q6QUA0; Q8WXQ5
UniProt Related Accession #	Q00532
GenBank Nucleotide #	NM_004196.3
NCBI Official Full Name	cyclin-dependent kinase-like 1
NCBI Official Synonym Full Names	cyclin-dependent kinase-like 1 (CDC2-related kinase)
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; CDC2-related kinase 1; protein kinase p42 KKIALRE; serine/threonine protein kinase KKIALRE; serine/threonine-protein kinase KKIALRE
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. Alternative splice variants encoding different protein isoforms have been described, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]
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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