# CDKL1 Peptide - C-Terminal Region Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | CDKL1, Blocking Peptide |
| **Full Product Name** | CDKL1 Peptide - C-terminal region |
| **Product Gene Name** | CDKL1 blocking peptide |
| **Product Synonym Gene Name** | CDKL1; |
| **Sequence** | Synthetic peptide located within the following region: AKEHNKPTRK TLRKSRKHHC FTETSKLQYL PQLTGSSILP ALDNKKYYCD |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Preparation and Storage** | Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | CDKL1 peptide (MBS3242379) is used for blocking the activity of CDKL1 antibody (MBS3217484) |
| **Molecular Weight** | 39kDa |
| **OMIM** | 603441 |
| **Product Categories/Family for CDKL1 blocking peptide** | Peptide |
| **Applications Tested/Suitable for CDKL1 blocking peptide** | Western Blot (WB) |
| **Related Product Information for CDKL1 blocking peptide** | This is a synthetic peptide designed for use in combination with anti-CDKL1 Antibody, made<br><br>Target Description: 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. |
| **Other Notes** | Small volumes of CDKL1 blocking peptide 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** | MBS3242379 is a blocking peptide targeting CDKL1. Also known as CDKL1 Peptide - C-terminal region. Reactive in Human. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 530404812 |
| **NCBI GeneID** | 8814 |
| **NCBI Accession #** | XP_005268214 |
| **UniProt Primary Accession #** | Q00532 |
| **UniProt Related Accession #** | Q00532 |
| **GenBank Nucleotide #** | XM_005268157.3 |
| **NCBI Official Full Name** | cyclin-dependent kinase-like 1 isoform X1 |

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| **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 that accumulates primarily in the nucleus. [provided by RefSeq, Nov 2018] |
| **UniProt Comments for CDKL1** | CDKL1: a protein kinase of the CDKL family. Accumulates primarily in the nucleus.<br><br>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<br><br>Chromosomal Location of Human Ortholog: 14q21.3<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: cyclin-dependent protein kinase activity; ATP binding<br><br>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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