Recombinant Human CDKL2, GST-tagged

Cat. No. CDKL2-175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDKL2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	CDKL2 or cyclin-dependent kinase-like 2 is a member of a large family of CDC2-related serine/threonine protein kinases that is postnatally expressed in various brain regions. The extremely high CDKL2 expression in brain regions suggests that it has a role in cognition and emotion. CDKL2 transcripts increase in the deep cerebellar nuclei of the rabbit after eyeblink conditioning, a model of associative learning and memory CDKL2, also known as p56 KKIAMRE, accumulates primarily in the cytoplasm with lower levels in the nucleus. CDKL2 or p56, and the related protein kinase had a similar pattern of mRNA expression except in the reproductive organs. CDKL2 is expressed in several human tissues, with the highest expression in testis and kidney.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~81 kDa
Purity	>80% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μl

GENE INFORMATION

Gene Name	CDKL2 cyclin-dependent kinase-like 2 (CDC2-related kinase) [Homo sapiens]
Official Symbol	CDKL2
Synonyms	CDKL2; cyclin-dependent kinase-like 2 (CDC2-related kinase); cyclin-dependent kinase-like 2; KKIAMRE; P56; CDC2-related kinase; p56 KKIAMRE protein kinase; protein kinase p56 KKIAMRE; serine/threonine protein kinase KKIAMRE; serine/threonine-protein kinase KKIAMRE;
Gene ID	8999
mRNA Refseq	NM_003948
Protein Refseq	NP_003939
MIM	603442
UniProt ID	Q92772
Chromosome Location	4q21.21

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Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein kinase activity;

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