CDKL5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDKL5, Monoclonal Antibody
Full Product Name	CDKL5 (STK9, Cyclin-dependent Kinase-like 5, Serine/Threonine-protein Kinase 9) (MaxLight 750)
Product Gene Name	anti-CDKL5 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1D9
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 CDKL5.
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 amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Immunogen	Partial recombinant corresponding to aa722-831 from human CDKL5 (AAH36091) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RPDNSFHENNVSTRVSSLPSESSSGTNHSKRQPAFDPWKSPENISHSEQLKEKEKQGFFRSMKKKKKKSQTVPNSDSPDLLTLQKSIHSASTPSSRPKE
Conjugate	MaxLight750
Product Categories/Family for anti-CDKL5 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDKL5 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CDKL5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDKL5 antibody	Defects in STK9, a dual-specificity serine/threonine kinase, are a cause of atypical Rett syndrome. Rett syndrome is an X-linked dominant disease. It is neurologic developmental disorder and one of the most common causes of mental retardation in females. Patients appear to develop normally until 6 to age, then gradually lose speech and purposeful hand movements and develop microcephaly, seizures, autism, ataxia, intermittent hyperventilation, and hand movements. After initial regression, the condition stabilizes and patients usually survive into adulthood. Rett syndrome due to CDKL5-associated characterized by a severe early-onset phenotype and atypical features such as infantile spasms.
Other Notes	Small volumes of anti-CDKL5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces 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 apply.

Searchable Terms for CDKL5 purchase	MBS6232085 is an antibody targeting CDKL5. Also known as CDKL5 (STK9, Cyclin-dependent Kinase-like 5, Serine/Threonine-protein Kinase 9) (Max Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKL5. It may not necessarily be applicable to this product.

NCBI GI #	23271296
NCBI GeneID	6792
NCBI Accession #	BC036091
NCBI Related Accession #	AAH36091
UniProt Related Accession #	O76039
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase-like 5, mRNA
NCBI Official Synonym Full Names	cyclin dependent kinase like 5
NCBI Official Symbol	CDKL5
NCBI Official Synonym Symbols	ISSX; STK9; EIEE2; CFAP247
Protein Family	Cyclin-dependent kinase
NCBI Protein Information	cyclin-dependent kinase-like 5
NCBI Summary for CDKL5	This gene is a member of Ser/Thr protein kinase family and encodes a phosphorylated protein with protein kinase activity. Mutations in this gene have been associated with X-linked infantile spasm syndrome (ISSX), also known as X-linked West syndrome, and Rett syndrome (RTT). Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]
Research Articles on CDKL5	**1.** the evolution and molecular features of MeCP2, CDKL5, and FOXG1 and their binding partners, were analyzed.
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