

STK9 recombinant protein

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CATALOG # AAA72912	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

STK9; STK9 recombinant protein; CDKL5; EIEE2; ISSX

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>85%
Form/Format	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.
Concentration	0.1 ug/ uL (varies by lot)
Sequence Positions	1-498
Sequence Length	3434
Applicable Applications for STK9 recombinant protein	WB (Western Blot)
Source Note	Recombinant human STK9 (CDKL5) (1-498) was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. 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. Ships with Dry Ice.

IMAGES



SDS-PAGE

The purity of STK9 was determined to be >85% by densitometry, approx MW 84 kDa.

ADDITIONAL INFORMATION

Related Product Information for STK9 recombinant protein	Recombinant human STK9 (CDKL5) (1-498) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: STK9 or CDKL5 is a member of Ser/Thr protein kinase family which has protein kinase activity and is associated with X-linked infantile spasm syndrome (ISSX), also known as X-linked West syndrome, and Rett syndrome (RTT). STK9 can control nuclear speckle morphology by regulating the phosphorylation state of splicing regulatory proteins, and may be involved indirectly in pre-mRNA processing, by controlling splicing factor dynamics (1). The mutations in the STK9 is a major cause of infantile spasms and early epileptic seizures in female patients, and of a later intractable seizure disorder (2).
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Product Categories/Family for STK9 recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins
References	1. Ricciardi, S. et.al: CDKL5 influences RNA splicing activity by its association to the nuclear speckle molecular machinery. Hum. Molec. Genet. 18: 4590-4602, 2009. 2. Archer, H. L. et.al: CDKL5 mutations cause infantile spasms, early onset seizures, and severe mental retardation in female patients. J. Med. Genet. 43: 729-734, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	83367066
NCBI GeneID	6792
NCBI Accession #	NP_003150.1
NCBI GenBank Nucleotide #	NM_003159
UniProt Accession #	O76039; Q14198; Q5H985; Q8IYC7; Q9UJL6; G9B9X4
Molecular Weight	~84 kDa
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase-like 5 (CDKL5), transcript variant I, mRNA
NCBI Official Synonym Full Names	cyclin-dependent kinase-like 5
NCBI Official Symbol	CDKL5
NCBI Official Synonym Symbols	ISSX; STK9; EIEE2
NCBI Protein Information	cyclin-dependent kinase-like 5; serine/threonine kinase 9; serine/threonine-protein kinase 9; cyclin dependent kinase 5 transcript
UniProt Protein Name	Cyclin-dependent kinase-like 5
UniProt Gene Name	CDKL5
UniProt Synonym Gene Names	STK9
UniProt Entry Name	CDKL5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cdkl5-recombinant-protein-sf9-insect-cells-wb-western-blot/72912>