CDK12/CyclinK Recombinant Protein | CDK12 recombinant protein

CDK12/CyclinK, Active

CATALOG #	HOST	APPLICATIONS
AAA73371	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

CDK12/CyclinK; Active; CDK12: CDK12; CRKRS; CRK7; CRKR; KIAA0904 CyclinK: CCNK; CPR4; MGC9113; CDK12 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 25% glycerol.
Applicable Applications for CDK12 recombinant protein	WB (Western Blot)
Tag	GST
Species	Human
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 degree 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CDK12 recombinant protein	Recombinant human CDK12 (658-end) /Cyclin K complex was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins. The gene a ccession number for CDK12 and CyclinK are NM_015083 and BC015935, respectively. CDK12 forms a protein complex with cyclin K and this complex acts at the level of RNA polymerase II (RNAPII) to regulate expression of long complex genes, several of which play a role in DNA maintenance and repair. CDK12 is highly expressed in adult liver, kidney, testis, ovary, spinal cord and within specific adult brain regions with the highest expression being detected in cerebellum and caudate nucleus (1). CYCK-CDK12 and CYCK-CDK13 complexes show unique function with the CYCK-CDK12 playing a role in maintenance of genomic stability (2).
Product Categories/Family for CDK12 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases
References	1. Ko, T. K.et.al: CrkRS: a novel conserved Cdc2-related protein kinase that colocalises with SC35 speckles. J. Cell Sci. 114: 2591-2603, 2001. 2. Blazek, D.et.al: The cyclin K/Cdk12 complex maintains genomic stability via regulation of expression of DNA damage response genes. Genes Dev. 25: 2158-2172, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_015083
Molecular Weight	67kDa

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/cdk12/cyclink-recombinant-protein-sf9-insect-cells-wb-western-blot/73371