

Datasheet for ABIN6699759 **CDK2 Protein (GST tag)**



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Overview

Quantity:	20 µg
Target:	CDK2
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK2 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	CDK2 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human CDK2 was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	CDK2
Alternative Name:	CDK2 (CDK2 Products)
Background:	Synonyms: p33 (CDK2), Cyclin-dependent kinase 2, Cell division protein kinase 2, p33 protein kinase Background: CDK2 is a member of the Cyclin-Dependent Kinase family that is ubiquitously

Target Details

expressed. CDK2 is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. CDK2 associates with and is regulated by the regulatory subunits of the complex including Cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B) (1). CDK2 phosphorylates multiple cellular substrates including SMAD3 and FOXO1. Phosphorylation of FOXO1 leads to its inhibition (2). CDK2 Protein is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Cancer, Cell Cycle, and Ser/Thr Kinases research.

NCBI Accession:	NM_001798
Pathways:	PI3K-Akt Signaling , Cell Division Cycle , Mitotic G1-G1/S Phases , DNA Replication , M Phase , Synthesis of DNA

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: CDK2 Protein is suitable for use in Western Blot. Expect a band approximately ~ 58 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	CDK2 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	12 months