Datasheet for ABIN6699765

CDKN1B Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	CDKN1B
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDKN1B protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	p27KIP1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human p27KIP1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Purity:	>85%

Target Details

Target:	CDKN1B
Alternative Name:	CDKN1B (CDKN1B Products)
Background:	Synonyms: CDKN1B, CDKN4, MEN1B, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1 Background: KIP1 (cyclin-dependent kinase inhibitor 1B) is a kinesin-related motor protein

Target Details

	required for mitotic spindle assembly and chromosome segregation (1). Many tumorigenic processes modulate cell-cycle progression by regulating the levels of the cyclin-dependent kinase inhibitor KIP1. KIP1 binds to and inhibits cyclinE-Cdk2 complex, cyclinA-CDK2 and cyclinD1-CDK4 (2). The phosphorylation- and ubiquitination-dependent proteolysis of KIP1 is implicated in control of the G1-S transition in the cell cycle. KIP1 is critical for retinoblastoma protein (Rb)-induced cellular proliferative senescence. p27KIP1 Protein is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Cancer, and Cell Cycle research.
NCBI Accession:	NM_004064
Pathways:	Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, Sensory Perception of Sound, Mitotic G1-G1/S Phases, DNA Replication, Positive Regulation of Endopeptidase Activity, Synthesis of DNA, Autophagy

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: p27KIP1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~52 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:	p27KIP1 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