Datasheet for ABIN6699763

p21 Protein (GST tag)

Go to Product page

Overview

Quantity:	20 µg
Target:	p21 (CDKN1A)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This p21 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	p21CIP1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human p21CIP1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >80% by densitometry.
Purity:	>80%

Target Details

Target:	p21 (CDKN1A)
Alternative Name:	CDKN1A (CDKN1A Products)
Background:	Synonyms: CDKN1A, P21, SDI1, WAF1, CAP20, CDKN1, MDA-6, Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, Melanoma differentiation-associated protein 6, MDA-6, p21

Target Details

	Background: CIP 1 (Cyclin-Dependent Kinase Inhibitor 1A) regulates cell cycle progression, terminal differentiation, and apoptosis (1). CIP1 was shown to be induced by p53 and to be a potent inhibitor of cyclin-dependent kinase (CDK) activity. DNA damage leads to increased expression of CIP1 in cyclin E-containing complexes and to an associated decrease in cyclin-dependent kinase activity. CIP1 is a critical downstream effector in the p53-specific pathway of growth control in mammalian cells (2). p21CIP1 Protein is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Cancer, and Cell Cycle research.
NCBI Accession:	NM_000389
Pathways:	p53 Signaling, PI3K-Akt Signaling, Cell Division Cycle, AMPK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Hepatitis C, Synthesis of DNA, Autophagy

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: p21CIP1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~46 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:	p21CIP1 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