

Datasheet for ABIN5596806

**anti-CDKN1B antibody (Internal Region, pSer140)**[2 Images](#)[1 Publication](#)[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CDKN1B
Binding Specificity:	Internal Region, pSer140
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

## Product Details

Immunogen:	Immunogen: Anti-p27 kip1 pS140 was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to S140 residue of human p27 kip1 protein. Immunogen Type: Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody will specifically react with a p27kip1 protein from human tissue. Reactivity against p27 from other species is unknown.
Purification:	Anti-p27 kip1 pS140 is directed against the phosphorylated form of human p27 kip1 protein at the S140 residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross adsorbed against

## Product Details

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the non-phosphorylated form of the immunizing peptide.

## Target Details

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Target:	CDKN1B
Alternative Name:	p27 kip1 ( <a href="#">CDKN1B Products</a> )
Background:	<p>Synonyms: Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1,</p> <p>Background: p27 kip1 pS140 is a cyclin-dependent kinase inhibitor that shares a limited similarity with CDK inhibitor CDKN1A/p21. p27 binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Phosphorylation occurs on serine, threonine and tyrosine residues. Anti-p27 kip1 pS140 antibody is ideal for researchers interested in cell cycle and cancer research.</p> <p>Gene Name: CDKN1B</p>
Gene ID:	1027
UniProt:	<a href="#">P46527</a>
Pathways:	<a href="#">Cell Division Cycle</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Synthesis of DNA</a> , <a href="#">Autophagy</a>

## Application Details

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Application Notes:	<p>Immunohistochemistry Dilution: User Optimized</p> <p>Application Note: Anti-p27kip1 pS140 antibody is suitable for use in ELISA, immunoprecipitation, co-immunoprecipitation and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~27 kDa in size corresponding to p27 by western blotting in the appropriate cell lysate or extract. Anti-p27 is suitable for the detection by immunoblot of human p27. Optimal titers for other applications should be determined by the researcher.</p> <p>Western Blot Dilution: 1:500 - 1:4,000</p> <p>Immunoprecipitation Dilution: User Optimized</p>
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## Application Details

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ELISA Dilution: 1:10,000 - 1:40,000

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.68 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: None

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

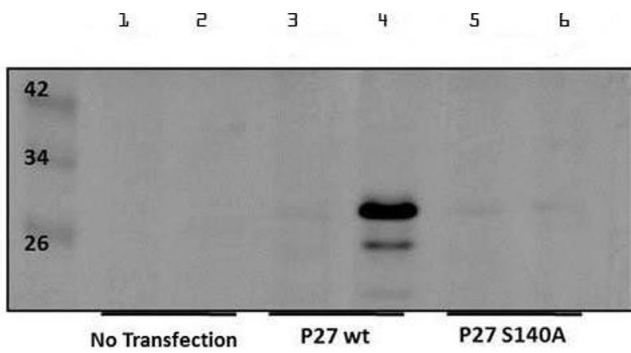
Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

## Publications

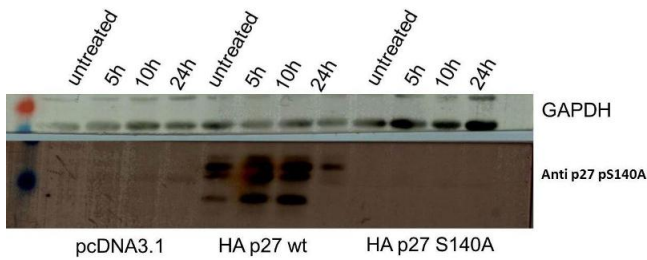
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Product cited in: Mishra, Stephenson, Chalfant, Brown: "Upregulation of human glycolipid transfer protein (GLTP) induces necroptosis in colon carcinoma cells." in: **Biochimica et biophysica acta. Molecular and cell biology of lipids**, Vol. 1864, Issue 2, pp. 158-167, (2019) ([PubMed](#)).



### Western Blotting

**Image 1.** Western Blot of Rabbit anti-p27kip1pS140 Antibody. Lane 1: 293 cells untransfected. Lane 2: 293 cells untransfected and treated. Lane 3: 293 cells transfected with HA-p27wt. Lane 4: 293 cells transfected with HA-p27wt and treated. Lane 5: 293 cells transfected with HA-p27S140A. Lane 6: 293 cells transfected with HA-p27S140A and treated. Load: 20  $\mu$ g per lane. Primary antibody: p27kip1pS140 antibody at 1:250 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO/TTBS overnight at 4°C. Predicted/Observed size: 27 kDa for p27kip1.



### Western Blotting

**Image 2.** Western Blot of Rabbit anti-p27kip1pS140 antibody. Lane 1-4: 293 pcDNA3.1. Lane 5-8: 293 HA-p27wt. Lane 9-12: 293 HA-p27S140A. Treatment: 10 $\mu$ M Etoposide, untreated, 5h, 10h, or 24h. Load: 20  $\mu$ g per lane. Primary antibody: p27kip1pS140 antibody at 1:250 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO/TTBS overnight at 4°C. Predicted/Observed size: 27 kDa for p27kip1pS140.