

Datasheet for ABIN6263944  
**anti-CDKN1B antibody (C-Term)**[Go to Product page](#)

2 Images

2 Publications

## Overview

Quantity:	100 µL
Target:	CDKN1B
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Immunogen:	A synthesized peptide derived from human p27 Kip1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	P27 Kip1 Antibody detects endogenous levels of total p27 Kip1.
Predicted Reactivity:	Bovine, Sheep, Rabbit, Dog, Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

## Target Details

Target:	CDKN1B
---------	--------

## Target Details

Alternative Name:	CDKN1B ( <a href="#">CDKN1B Products</a> )
Background:	<p>Description: Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichiometry.</p> <p>Gene: CDKN1B</p>
Molecular Weight:	27kDa
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

Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.

## Handling

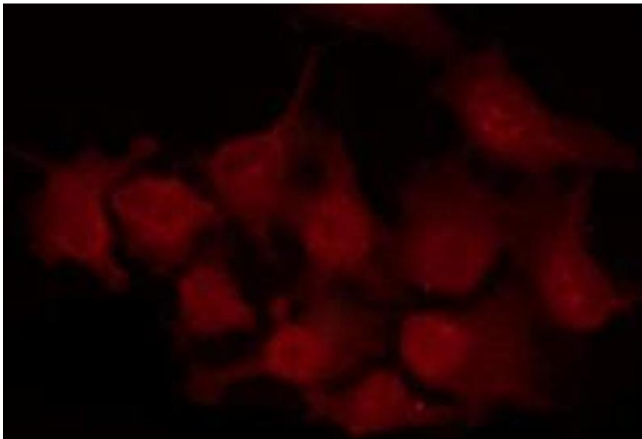
---

Expiry Date: 12 months

## Publications

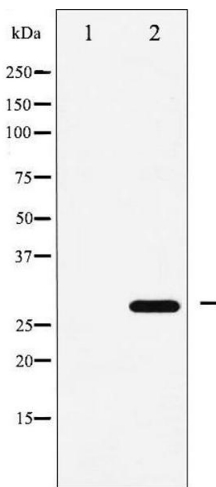
---

- Product cited in: Yang, Wu, Jia, Zhao, Hou, Liu, Wang, Chen, Yang, Lei, Wang: "The mechanically activated p38/MMP-2 signaling pathway promotes bone marrow mesenchymal stem cell migration in rats." in: **Archives of oral biology**, Vol. 76, pp. 55-60, (2018) ([PubMed](#)).
- Geng, Yang, Wang, Zhang, Hu, Gu, Li: "Trimethylamine N-oxide promotes atherosclerosis via CD36-dependent MAPK/JNK pathway." in: **Biomedicine & pharmacotherapy**, Vol. 97, pp. 941-947, (2018) ([PubMed](#)).
- Ji, Zheng, Liu, Ren, Gao, Zhang, Li: "Resveratrol promotes oxidative stress to drive DLC1 mediated cellular senescence in cancer cells." in: **Experimental cell research**, Vol. 370, Issue 2, pp. 292-302, (2018) ([PubMed](#)).
- Zou, Xiang, Wang, Peng, Wei: "Oregano Essential Oil Improves Intestinal Morphology and Expression of Tight Junction Proteins Associated with Modulation of Selected Intestinal Bacteria and Immune Status in a Pig Model." in: **BioMed research international**, Vol. 2016, pp. 5436738, (2017) ([PubMed](#)).
- Liu, Zheng, Zhang, Wang, Yang, Bai, Dai: "Fucoxanthin Activates Apoptosis via Inhibition of PI3K/Akt/mTOR Pathway and Suppresses Invasion and Migration by Restriction of p38-MMP-2/9 Pathway in Human Glioblastoma Cells." in: **Neurochemical research**, Vol. 41, Issue 10, pp. 2728-2751, (2017) ([PubMed](#)).



**Immunofluorescence (fixed cells)**

**Image 1.** ABIN6269265 staining A2780 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



**Western Blotting**

**Image 2.** Western blot analysis of p27 Kip1 expression in EGF treated HeLa whole cell lysates,The lane on the left is treated with the antigen-specific peptide.