

For Research Use Only

P27; KIP1 Monoclonal antibody

Catalog Number: 67355-1-Ig **3 Publications**



Basic Information

Catalog Number:

67355-1-Ig

Size:

1600 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG14634

GenBank Accession Number:

BC001971

GeneID (NCBI):

1027

UNIPROT ID:

P46527

Full Name:

cyclin-dependent kinase inhibitor 1B
(p27, Kip1)

Calculated MW:

198 aa, 22 kDa

Observed MW:

27 kDa

Purification Method:

Protein G purification

CloneNo.:

3F12C10

Recommended Dilutions:

WB 1:5000-1:10000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

Background Information

CDKN1B, also named as P27 or KIP1, is a cyclin-dependent kinase inhibitor, which 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 controlling 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. Downregulation of P27 has been implicated in the progression of several malignancies, including lung cancer, hepatocellular carcinoma, salivary cancer, oral squamous cell carcinomas, and gastric cancer.

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Zhou	34765572	J Hepatocell Carcinoma	WB
Tongguan Tian	37938970	Cell Rep	WB
Wei Chang	37643584	J Vasc Res	WB

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

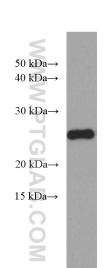
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 67355-1-Ig (P27; KIP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.