

For Research Use Only

P21 Polyclonal antibody

Catalog Number: 10240-1-AP

2 Publications



Basic Information

Catalog Number:

10240-1-AP

Size:

150ul, Concentration: 293 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0308

GenBank Accession Number:

BC000312

GeneID (NCBI):

1026

UNIPROT ID:

P38936

Full Name:

cyclin-dependent kinase inhibitor 1A (p21, Cip1)

Calculated MW:

21 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Background Information

P21 (also known as CIP1, WAF1) is a cyclin-dependent kinase inhibitor. P21 binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at the G1 phase. The expression of P21 is induced by wild-type but not mutant p53 protein, through which P21 mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. P21 can interact with proliferating cell nuclear antigen (PCNA), and plays a regulatory role in S phase DNA replication and DNA damage repair. P21 was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported.

Notable Publications

Author	Pubmed ID	Journal	Application
Chen Song S	22427918	PLoS One	WB
Shuyong Zhang	39152570	Head Neck	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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

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