

Product datasheet for **TA374578**

p21 (CDKN1A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	IHC-P, 1:50 - 1:200 ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Formulation:	Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	18kDa
Gene Name:	cyclin-dependent kinase inhibitor 1A
Database Link:	Entrez Gene 1026 Human P38936



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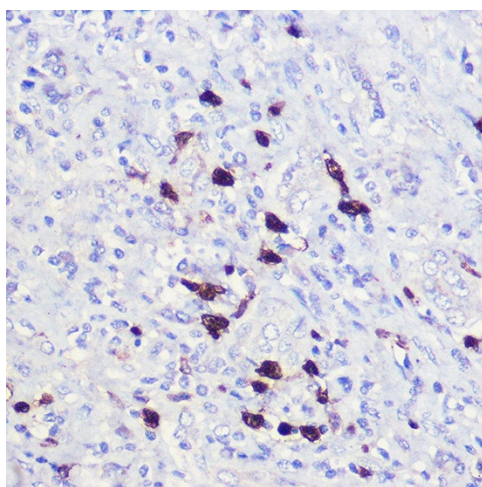
Background:

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene.

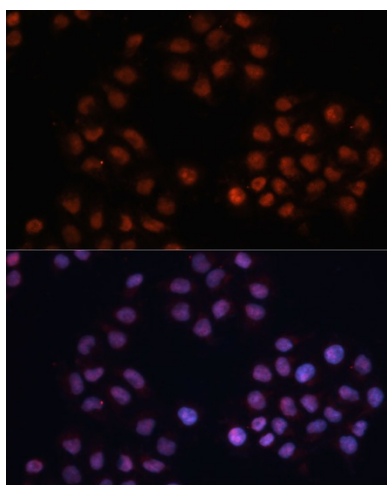
Synonyms:

CAP20; CDKN1; CIP1; MDA-6; MDA6; OTTHUMP00000016298; P21; p21CIP1; p21Cip1/Waf1; PIC1; SDI1; WAF1

Product images:



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using CDKN1A/p21CIP1 Rabbit pAb (TA374578) at a dilution of 1:100 (40x lens). Microwave antigen retrieval was performed with 0.01 M PBS buffer (pH 7.2±0.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using CDKN1A/p21CIP1 Rabbit pAb (TA374578) at a dilution of 1:100 (40x lens). Microwave antigen retrieval was performed with 0.01 M PBS buffer (pH 7.2±0.2) prior to IHC staining.