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CDKN1A Antibody

Wild type p53 activated fragment-1 (p21)

CATALOG NO.: XW-7422

BACKGROUND:
Cyclin-dependent kinase inhibitor 1A; melanoma differentiation associated protein 6; CDK-interaction protein 1; wild-type p53-activated fragment 1; DNA synthesis inhibitor [Homo sapiens]. This protein is a potent cyclin-dependent kinase inhibitor. It binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of p21 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 (PCNA), 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 CDK2, and may be instrumental in the execution of apoptosis following caspase activation.

TESTED APPLICATION:
WB

SPECIES REACTIVITY:
H,M,R

CLONALITY:
Polyclonal

HOST:
Chicken

IMMUNOGEN:
20-149

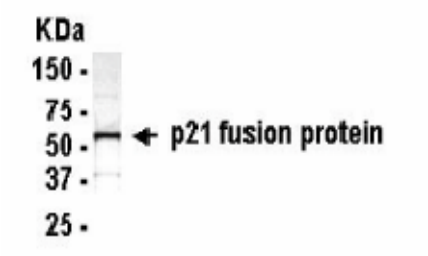
PROTEIN GI #:
11386203

PROTEIN ACCESSION #:
NP_000380.1

PURIFICATION:
Antigen affinity-purified

BUFFER:
Phosphate-Buffered Saline. No preservatives added.

APPLICATION:
p21 IgY antibody can be used for the detection of p21 by Western blot, may also work for IHC and ICC.



p21 IgY Antibody

STORAGE:

This antibody can be stored at 4ºC for short term (weeks). Long term storage should be at -20ºC. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

USER NOTES:

When working with antibodies optimal dilutions/concentrations should be determined by the end user for each application. The information provided is a guideline for antibody use. As with all ProSci antibodies, this antibody is for research use only.