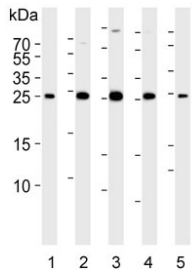
CDKN1A Antibody / p21 (F54392)

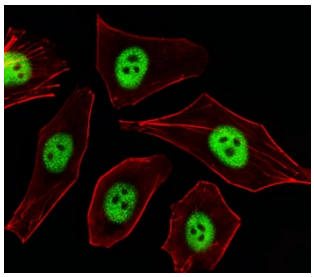
Catalog No.	Formulation	Size
F54392-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54392-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

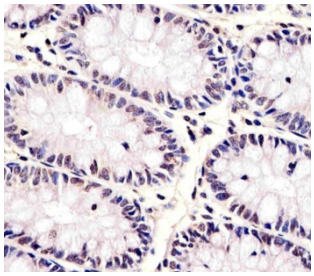
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P38936
Localization	Nuclear
Applications	Immunofluorescence: 1:25 Western blot: 1:500-1:2000 Immunohistochemistry (FFPE): 1:25
Limitations	This CDKN1A antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) HUVEC, 3) MCF7, 4) SH-SY5Y and 5) mouse lung lysate with CDKN1A antibody.



Immunofluorescent staining of fixed and permeabilized human A549 cells with CDKN1A antibody (green) and anti-Actin (red).



IHC testing of FFPE human colon tissue with CDKN1A antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D- CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.

For additional research into CDKN1A-mediated cell cycle regulation and DNA damage responses, explore our p21 Antibody (V2431), featuring clone DCS-60.2.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CDKN1A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 133-164 from the human protein was used as the immunogen for the CDKN1A antibody.

Storage

Aliquot the CDKN1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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