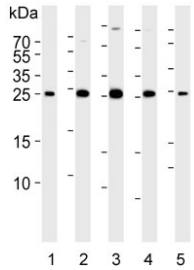
# CDKN1A Antibody / p21 (F54392)

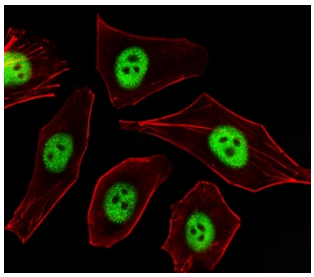
| Catalog No. | Formulation | Size |
|---|---|---|
| F54392-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54392-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

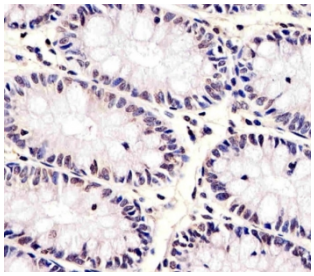
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse |
| **Format** | Purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | P38936 |
| **Localization** | Nuclear |
| **Applications** | Immunofluorescence : 1:25<br>Western Blot : 1:500-1:2000<br>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.

## 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.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com