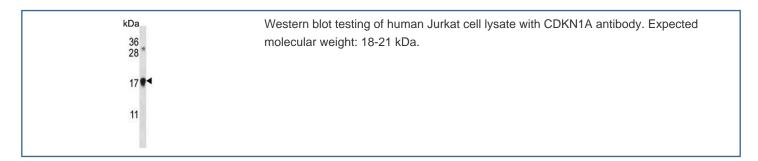


CDKN1A Antibody / p21WAF1 (F54670)

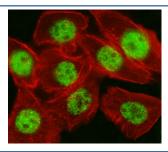
Catalog No.	Formulation	Size
F54670-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54670-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

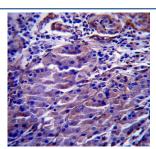
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P38936
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunofluorescence : 1:25 Immunohistochemistry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



kDa 55 36 28 -	Western blot testing of mouse Neuro-2a cell lysate with CDKN1A antibody. Expected molecular weight: 18-21 kDa.
17.•◀	
11	



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



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

Description

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein 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 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 (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. Multiple alternatively spliced variants have been found for this gene.

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 117-146 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.