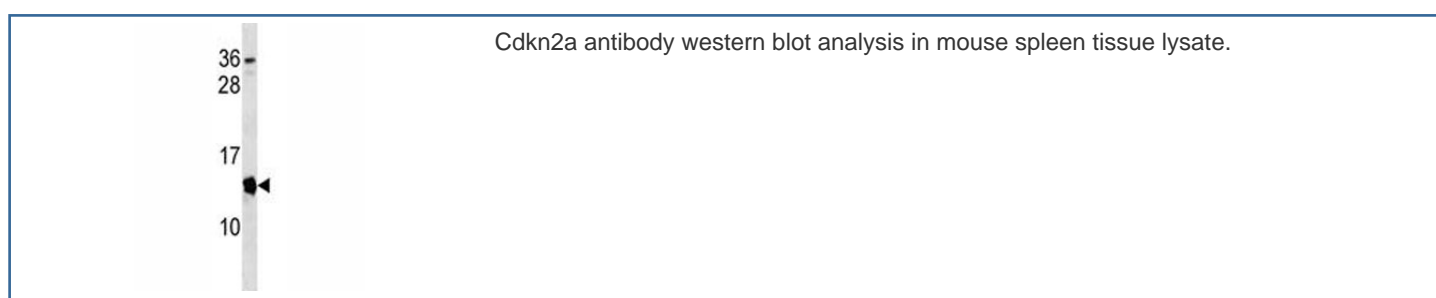


## Cdkn2a Antibody (F47172)

Catalog No.	Formulation	Size
F47172-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47172-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	Q64364
<b>Applications</b>	Western Blot : 1:1000
<b>Limitations</b>	This Cdkn2a antibody is available for research use only.



## Description

Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Interacts with

UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development.

## **Application Notes**

Titration of the Cdkn2a antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

A portion of amino acids 39-65 from the mouse protein was used as the immunogen for this Cdkn2a antibody.

## **Storage**

Aliquot the Cdkn2a antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.