

CDKN2A/p16INK4a Rabbit mAb

Catalog No.: A29088 **Recombinant**

Basic Information

Observed MW

16 kDa

Calculated MW

13 kDa/18 kDa

Category

Primary antibody

Applications

WB, IP, ELISA

Cross-Reactivity

Mouse

CloneNo number

ARC3870

Background

Enables several functions, including DNA-binding transcription activator activity, RNA polymerase II-specific; MDM2/MDM4 family protein binding activity; and enzyme inhibitor activity. Involved in several processes, including cellular response to gamma radiation; negative regulation of lymphocyte proliferation; and positive regulation of apoptotic process. Acts upstream of or within several processes, including keratinocyte proliferation; negative regulation of mammary gland epithelial cell proliferation; and negative regulation of protein metabolic process. Located in cytoplasm and granular component. Part of protein-containing complex. Is expressed in several structures, including central nervous system; eye; genitourinary system; immune system; and umbilical artery. Used to study high grade glioma; malignant peripheral nerve sheath tumor; melanoma (multiple); and pancreatic carcinoma (multiple). Human ortholog(s) of this gene implicated in several diseases, including breast cancer (multiple); carcinoma (multiple); hematologic cancer (multiple); high grade glioma (multiple); and melanoma (multiple). Orthologous to human CDKN2A (cyclin dependent kinase inhibitor 2A).

Recommended Dilutions

WB 1:3000 - 1:15000**IP** 0.5 µg - 4 µg antibody for
200 µg - 400µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Contact

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Immunogen Information

Gene ID

12578

Swiss Prot

P51480

Immunogen

This information is considered to be commercially sensitive.

Synonyms

Arf; p16; MTS1; Pctr1; p19ARF; p16INK4a; p19; ARF-INK4a; INK4a-ARF; Ink4a/Arf; p16(INK4a)

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

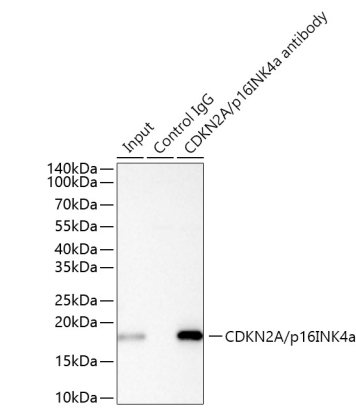
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

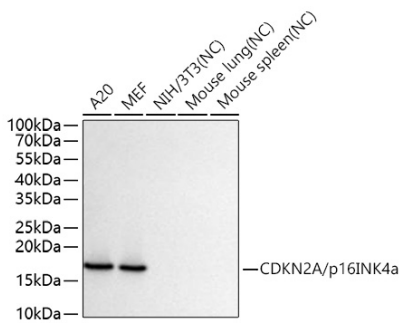


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Validation Data



Immunoprecipitation of CDKN2A/p16INK4a from 300 µg extracts of MEF cells was performed using 2 µg of CDKN2A/p16INK4a Rabbit mAb (A29088). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using CDKN2A/p16INK4a Rabbit mAb (A29088) at a dilution of 1:5000.



Western blot analysis of various lysates using CDKN2A/p16INK4a Rabbit mAb (A29088) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): NIH/3T3, Mouse lung, Mouse spleen.
Exposure time: 5 s.