10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDKN2A/p16INK4a Rabbit mAb

Catalog # AP75249

Product Information

Application	WB, FC, IP
Primary Accession	P51480
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	17941

Additional Information

Gene ID	12578
Other Names	Cdkn2A
Dilution	WB~~1:500-1:1000 FC~~1:200-1:500 IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

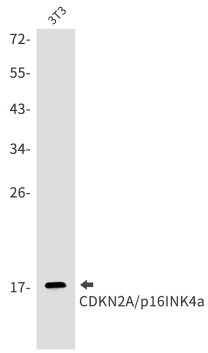
Name	Cdkn2a {ECO:0000312|MGI:MGI:104738}
Synonyms	P16ink4a
Function	Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.
Cellular Location	Cytoplasm. Nucleus.

Background

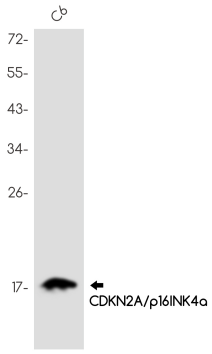
Enables several functions, including DNA-binding transcription activator activity, RNA polymerase II-specific; MDM2/MDM4 family protein binding activity; and enzyme inhibitor activity. Involved in several processes, including negative regulation of lymphocyte proliferation; positive regulation of apoptotic process; and

regulation of intracellular signal transduction. 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).

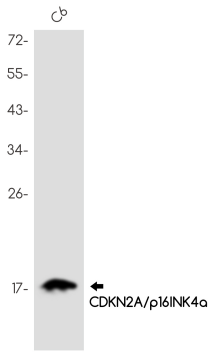
Images

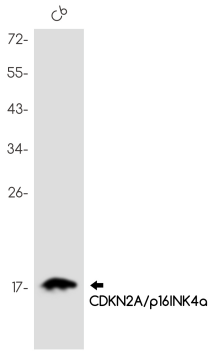


Western blot analysis of CDKN2A/p16INK4a in 3T3 lysates using CDKN2A antibody.



Western blot analysis of CDKN2A/p16INK4a in C6 lysates using CDKN2A/p16INK4a antibody.





Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.