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## Product datasheet for TA805348

OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## p16INK4A (CDKN2A) Mouse Monoclonal Antibody [Clone ID: OTI2H7]

## Product data:

Product Type: Primary Antibodies
Clone Name: OTI2H7
Applications: IF, WB
Recommended Dilution: WB 1:200-1:1000
Reactivity: Human
Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
Immunogen:
Formulation:
Full length human recombinant protein of human CDKN2A (NP_000068) produced in E.coli. PBS (pH 7.3) containing $1 \%$ BSA, $50 \%$ glycerol and $0.02 \%$ sodium azide.
Concentration: $\quad 1 \mathrm{mg} / \mathrm{ml}$
Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation: Unconjugated
Storage:
Stability:
Predicted Protein Size:
Store at $-20^{\circ} \mathrm{C}$ as received.
Stable for 12 months from date of receipt.

Gene Name:
Database Link:
16.4 kDa
cyclin-dependent kinase inhibitor 2A
NP 000068
Entrez Gene 1029 Human
Q8N726

## Background:

Synonyms:

Protein Families:
Protein Pathways:

## Product images:

This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq, Sep 2012]

ARF; CDK4I; CDKN2; CMM2; INK4; INK4A; MLM; MTS-1; MTS1; P14; P14ARF; P16; P16-INK4A; P16INK4

Druggable Genome
Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer


HEK293T cells were transfected with the pCMV6ENTRY control (Left lane) or pCMV6-ENTRY CDKN2A ([RC220937], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDKN2A. Positive lysates [LY400022] (100ug) and [LC400022] (20ug) can be purchased separately from OriGene.


Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-CDKN2A monoclonal antibody at 1:200.

Immunocytochemistry staining of MDA-MB-468 cells using anti-CDKN2A mouse monoclonal antibody (TA805348). The right is MCF7 cells as negative control (1:100).

