BT LAB
Bioassay Technology Laboratory

Optimize Your Research

CDKN1A Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3267
Host	Mouse
Isotype	Mouse IgG1
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human CDKN1A (AA: 1-164) expressed in E. Coli.
Mol wt	18.1kDa
Species reactivity	Others
Clonality	Monoclonal
Recommended application	ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	P21;CIP1;SDI1;WAF1;CAP20;CDKN1;MDA-6;p21CIP1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 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, 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 cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene.

Recommended Dilution

WB: 1:500 - 1:2000

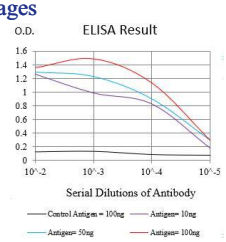
ICC: 1:25 - 1:200

FCM: 1:200 - 1:400

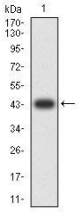
ELISA: 1:10000

Not yet tested in other applications.

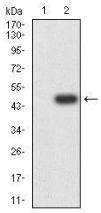
Images



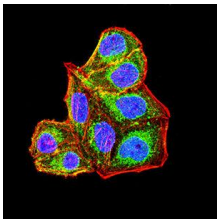
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



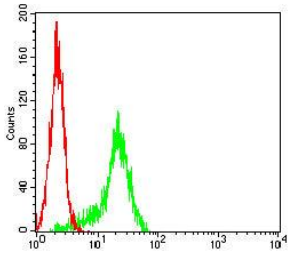
Western blot analysis using CDKN1A mAb against human CDKN1A (AA: 1-164) recombinant protein. (Expected MW is 43.7 kDa)



Western blot analysis using CDKN1A mAb against HEK293-6e (1) and CDKN1A (AA: 1-164)-hIgGFc transfected HEK293-6e (2) cell lysate.



Immunofluorescence analysis of Hela cells using CDKN1A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of Hela cells using CDKN1A mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com