Product Datasheet

CDKN1A Antibody

Catalog No: #31014

Package Size: #31014-1 50ul #31014-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	CDKN1A Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total CDKN1A protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 6-149 amino acids of Human Cyclin-dependent kinase inhibitor 1
Target Name	CDKN1A
Other Names	Cyclin-dependent kinase inhibitor 1, P21, CIP1, SDI1, WAF1, CAP20, CDKN1, MDA-6, p21CIP1
Accession No.	Swiss-Prot:P38936Gene ID:1026;
Uniprot	P38936
GeneID	1026;
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

Application Details

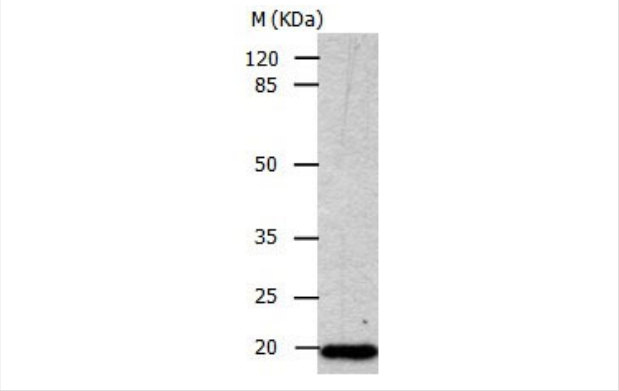
Predicted MW: 18kd

ELISA: 1:500-1:5000

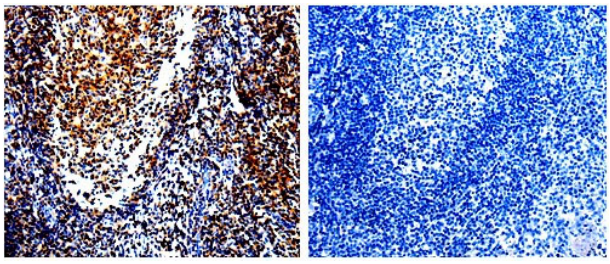
Western blotting: 1:500-1:1000

Immunohistochemistry: 1:25-1:100

Images



Gel: 8%+10%SDS-PAGE
Lysate: 30 µg LNCap cell lysate
Primary antibody: 1/370 dilution
Secondary antibody: Donkey anti Rabbit IgG - H&L (HRP) at 1/3000 dilution
Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using 31014(CDKN1A Antibody) at dilution 1/25,on the right is treated with the fusion protein.

Background

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 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 (PCNA), 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 CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Multiple alternatively spliced variants have been found for this gene.

Note: This product is for in vitro research use only