

## CDKN1A 抗原（重组蛋白）

中文名称：CDKN1A 抗原（重组蛋白）

英文名称：CDKN1A Antigen (Recombinant Protein)

储存：冷冻（-20℃）

相关类别：抗原

概述

Fusion protein corresponding to a region derived from 5-164 amino acids of human CDKN1A

技术规格

<b>Full name:</b>	cyclin dependent kinase inhibitor 1A
<b>Synonyms:</b>	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1
<b>Swissprot:</b>	P38936
<b>Gene Accession:</b>	BC000275
<b>Purity:</b>	>85%, as determined by Coomassie blue stained SDS-PAGE
<b>Expression system:</b>	Escherichia coli
<b>Tags:</b>	His tag C-Terminus, GST tag N-Terminus
<b>Background:</b>	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 h  
ave the ability to regenerate damaged or missing tissue. Multiple  
alternatively spliced variants have been found for this gene.