

Recombinant Human CDKN1A

Catalog No: #GP10075

Package Size: #GP10075-1 100ug

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

Description

Product Name	Recombinant Human CDKN1A
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 5-149 amino acids of human cyclin-dependent kinase inhibitor 1A (p21, Cip1)
Target Name	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
Other Names	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1
Accession No.	Swissprot:P38936Gene Accession:BC000275
Uniprot	P38936
GeneID	1026;
Storage	-20~-80°C, pH 7.6 PBS

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

Note: This product is for in vitro research use only