

Product datasheet for **CF808130**

p21 (CDKN1A) Mouse Monoclonal Antibody [Clone ID: OTI6G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI6G2
Applications:	WB
Recommend Dilution:	WB 1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 2-164 of human CDKN1A(NP_510867) produced in E.coli.
Formulation:	PBS (pH7.3), 8% Trehalose
Reconstitution Method:	Reconstitute with PBS (pH7.3). To use this carrier-free antibody for conjugation experiment, we strongly recommend you to perform another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from cell culture supernatant by affinity chromatography
Predicted Protein Size:	17.9 kDa
Gene Name:	Homo sapiens cyclin dependent kinase inhibitor 1A (CDKN1A), transcript variant 2, mRNA.
Database Link:	NP_510867 Entrez Gene 1026 Human
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. [provided by RefSeq, Nov 2010]



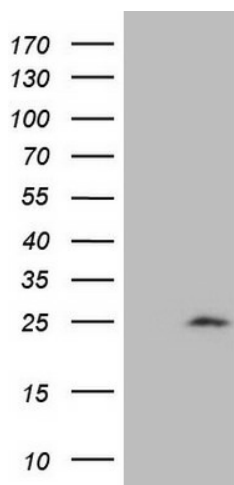
[View online »](#)

Synonyms: CAP20; CDKN1; CIP1; MDA-6; P21; p21CIP1; SDI1; WAF1

Protein Families: Druggable Genome

Protein Pathways: Bladder cancer, Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CDKN1A (RC201765, 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-CDKN1A (1:500). Positive lysates LY409213 (100ug) and LC409213 (20ug) can be purchased separately from OriGene.