

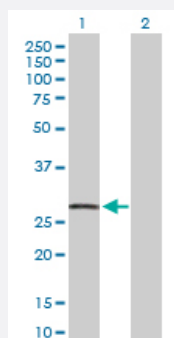
MaxPab®

CDKN1A purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00001026-D01P

Size 100 ug

Applications

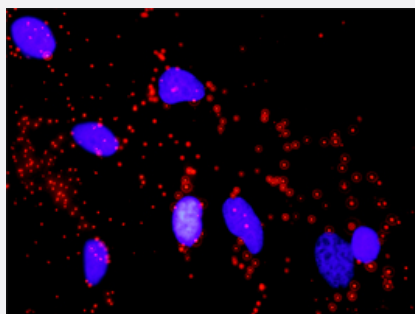


Western Blot (Transfected lysate)

Western Blot analysis of CDKN1A expression in transfected 293T cell line ([H00001026-T03](#)) by CDKN1A MaxPab polyclonal antibody.

Lane 1: CDKN1A transfected lysate(18.10 kDa).

Lane 2: Non-transfected lysate.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CDKN1A and MDM2. HeLa cells were stained with anti-CDKN1A rabbit purified polyclonal 1:1200 and anti-MDM2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human CDKN1A protein.
Immunogen	CDKN1A (AAH00312.1, 1 a.a. ~ 164 a.a) full-length human protein.
Sequence	MSEPAGDVVRQNPCGSKACRRLLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGD FAWERVRGLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEDHVDLSLSCTLVPRSGE QAEGLPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSKRKP
Host	Rabbit
Reactivity	Human

Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

- In situ* Proximity Ligation Assay (Cell)

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Gene Info — CDKN1A

Entrez GeneID	1026
GeneBank Accession#	NM_000389
Protein Accession#	AAH00312.1
Gene Name	CDKN1A
Gene Alias	CAP20, CDKN1, CIP1, MDA-6, P21, SDI1, WAF1, p21CIP1
Gene Description	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
Omim ID	116899
Gene Ontology	Hyperlink

Gene Summary

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. Two alternatively spliced variants, which encode an identical protein, have been reported. [provided by RefSeq]

Other Designations

CDK-interaction protein 1|DNA synthesis inhibitor|OTTHUMP00000016298|cyclin-dependent kinase inhibitor 1A|melanoma differentiation associated protein 6|wild-type p53-activated fragment 1

Pathway

- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Glioma](#)
- [Melanoma](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Carcinoma](#)
- [Cardiovascular Diseases](#)
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- [Chronic Disease](#)
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- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Edema](#)
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- [Lupus Nephritis](#)
- [Lymphoma](#)
- [Malignant melanoma](#)

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- [Meningioma](#)
- [Mouth Neoplasms](#)
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- [Multiple Endocrine Neoplasia Type 1](#)
- [Myocardial Infarction](#)
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- [Pancreatic Neoplasms](#)
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- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Skin Diseases](#)

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- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)