

**Anti-p16 (RABBIT) Antibody**  
**p16 Antibody**  
**Catalog # ASR3672**

**Specification**

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**Anti-p16 (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, IP, I, LCI
Application Note	This product was tested by immunoblot and found to be reactive against p16 from cell lysates and E.coli produced fusion proteins at a dilution of 1:1000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) (code #611-1302). Anti-p16 is suitable for the detection by immunoblot of human p16. This antisera is also suitable for immunoprecipitation of in vitro translated protein and cell lysates (Saos-2, 3T3-L1 weakly) and will co-precipitate associated proteins including p15 and potentially p15.5. This product was tested in IHC.
Physical State	Liquid (sterile filtered)
Immunogen	human p16 protein (missing the first 7 amino acids)
Preservative	0.01% (w/v) Sodium Azide

**Anti-p16 (RABBIT) Antibody - Additional Information**

**Gene ID** 1029

**Other Names**  
1029

**Purity**

This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a p16 protein from human tissue. Cross reactivity may occur with p15 when immunoprecipitating in vitro translated product but not in immunoblots. Potentially cross reacts with p15.5.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

### Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### Anti-p16 (RABBIT) Antibody - Protein Information

**Name** CDKN2A ([HGNC:1787](#))

**Synonyms** CDKN2, MTS1

#### Function

Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.

#### Cellular Location

Cytoplasm. Nucleus

#### Tissue Location

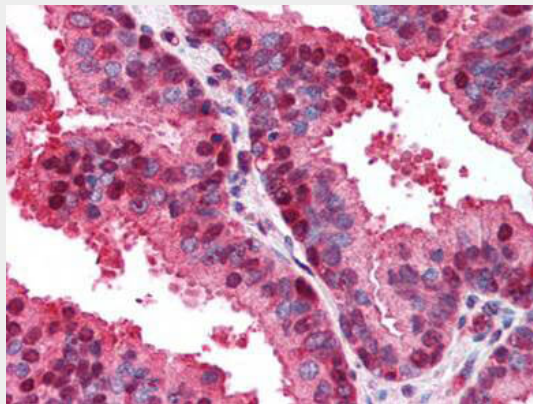
Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific

### Anti-p16 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-p16 (RABBIT) Antibody - Images



Rockland's anti-p16 antibody was diluted 1:500 to detect p16 in human prostate tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

### **Anti-p16 (RABBIT) Antibody - Background**

The gene for CDKN2A generates several transcripts/proteins which differ from each other in their first exons. Three of these transcripts are generated by alternative splicing (isoform 1 a.k.a p16INK4A, isoform 2 and isoform 3 a.k.a p12), two of which are known to function as inhibitors of CDK4 kinase. One other transcript that is generated from this gene contains an alternate reading frame (ARF), with the first exon located 20kb upstream of the remainder of the gene (isoform 4 a.k.a. p14ARF, p19ARF, ARF). In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are involved in cell cycle G1 control.