

Datasheet for ABIN7504172

**Recombinant anti-CDKN2A antibody****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CDKN2A
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CDKN2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

## Product Details

Immunogen:	Purified recombinant prokaryotic full-length human p16INK4a protein
Isotype:	IgG2a
Specificity:	<p>P16INK4a is a tumor suppressor protein. It is a specific inhibitor of cdk4/cdk6, and a tumor suppressor involved in the pathogenesis of a variety of malignancies. Recent analyses of the p16INK4a gene revealed homozygous deletions, nonsense, missense, or frameshift mutations in several human cancers. Although the frequency of p16INK4a abnormalities is higher in tumor derived cell lines than in unselected primary tumors, significant subsets of clinical cases with aberrant p16INK4a gene have been reported among melanomas, gliomas, esophageal, pancreatic, lung, and urinary bladder carcinomas, and some types of leukemia. Expression of p16INK4a (p16 positive) is highly correlated with human papilloma virus (HPV) infection in head and neck squamous cell carcinomas (HNSCC). p16 status is an important prognostic indicator in HNSCC and the p16 positive/HPV16 negative group is likely a distinct subgroup lacking any</p>

## Product Details

	HPV genotype.
Cross-Reactivity (Details):	Human.
Purification:	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

## Target Details

Target:	CDKN2A
Alternative Name:	ARF ( <a href="#">CDKN2A Products</a> )
Background:	CDK4 inhibitor p16 INK4, CDK4I, CDKN2A, Cell cycle negative regulator beta, CMM2, Cyclin dependent kinase 4 inhibitor A, Melanoma p16 inhibits CDK4, MLM, MTS1, Multiple tumor suppressor 1, p14, p16, p19, P19ARF, TP16,P16INK4a Cellular localisation: Nucleus. Cytoplasm.
Molecular Weight:	14kDa
Gene ID:	1029, 512599
UniProt:	<a href="#">P42771</a>
Pathways:	<a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">Stem Cell Maintenance</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Autophagy</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## Application Details

Application Notes:	Positive Control: Human cervical squamous cell carcinoma. Known Application: Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

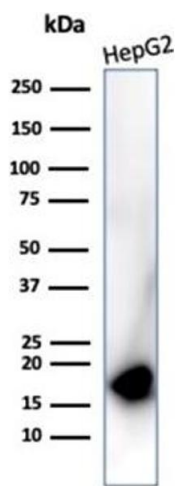
should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

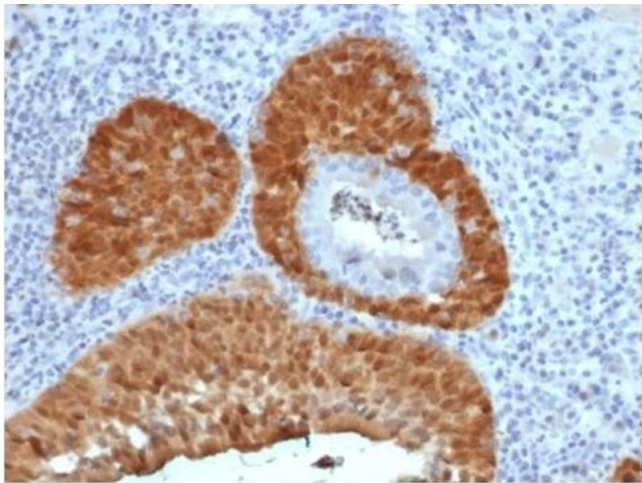
Expiry Date: 24 months

Images



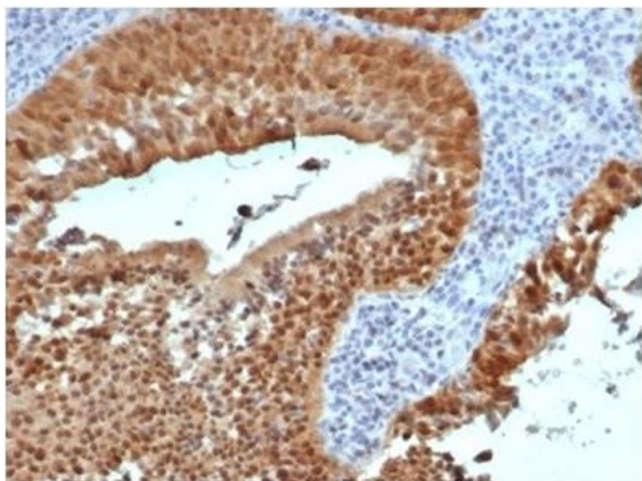
Western Blotting

**Image 1.** Western blot analysis of HepG2 cell lysate using P16 Recombinant Mouse Monoclonal Antibody (rCDKN2A/4845).



Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human cervix stained with P16INK4a Recombinant Mouse Monoclonal Antibody (rCDKN2A/4845).



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human cervix stained with P16INK4a Recombinant Mouse Monoclonal Antibody (rCDKN2A/4845).