

Datasheet: AHP1488

Description:	RABBIT ANTI CDKN2A
Specificity:	CDKN2A
Other names:	p16INK4a
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1 - 2ug/ml
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat, Human N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human CDKN2A was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen A 19 amino acid peptide located near the amino terminus of human CDKN2A.

External Database Links

UniProt:

[P42771](#) [Related reagents](#)

[Q8N726](#) [Related reagents](#)

Entrez Gene:

[1029](#) CDKN2A [Related reagents](#)

[1029](#) CDKN2A [Related reagents](#)

Synonyms CDKN2, MLM, MTS1

Specificity **Rabbit anti Human CDKN2A antibody** recognizes human cyclin-dependent kinase inhibitor 2A (CDKN2A), a 16 kDa protein belonging to the CDKN2 cyclin dependent kinase inhibitor family.

CDKN2A acts as a negative regulator of cell proliferation by interacting strongly with CDK4 and CDK6, thus inhibiting their ability to interact with cyclin D and to phosphorylate the retinoblastoma protein.

CDKN2A is an important tumour suppressor and defects in its production results in tumour formation in a wide range of tissues, including cutaneous malignant melanoma and Li-Fraumeni syndrome.

Western Blotting AHP1488 detects a band of approximately 20 kDa in mouse colon cell lysates.

Further Reading

1. Stone, S. *et al.* (1995) Complex structure and regulation of the P16 (MTS1) locus. [Cancer Res. 55 \(14\): 2988-94.](#)
2. Kamb, A. *et al.* (1994) Analysis of the p16 gene (CDKN2) as a candidate for the chromosome 9p melanoma susceptibility locus. [Nat Genet. 8 \(1\): 23-6.](#)
3. Kratzke, R.A. *et al.* (1995) Immunohistochemical analysis of the p16INK4 cyclin-dependent kinase inhibitor in malignant mesothelioma. [J Natl Cancer Inst. 87 \(24\): 1870-5.](#)
4. Stott, F.J. *et al.* (1998) The alternative product from the human CDKN2A locus, p14(ARF), participates in a regulatory feedback loop with p53 and MDM2. [EMBO J. 17 \(17\): 5001-14.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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