Datasheet: AHP1488

BATCH NUMBER 165808

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

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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
RRID	AB_2078173
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	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1488 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®680, DyLight®800

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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