

Datasheet: MCA2325

Description:	MOUSE ANTI HUMAN p21/WAF1
Specificity:	p21/WAF1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	WA-1
Isotype:	IgG1
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	▪			1/100 - 1/1000

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
Product Form	Purified IgG - liquid
Preparation	Ig fraction prepared by ammonium sulphate precipitation from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human p21 protein.
External Database Links	<p>UniProt: P38936 Related reagents</p> <p>Entrez Gene: 1026 CDKN1A Related reagents</p>
Synonyms	CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1
RRID	AB_2077672
Specificity	<p>Mouse anti Human p21/WAF1 antibody, clone WA-1 recognizes human Cyclin-dependent kinase inhibitor 1, also known as CDK-interacting protein 1, cyclin-dependent kinase inhibitor p21/WAF1, p21, WAF1, CIP-1, Melanoma differentiation-associated protein 6 or MDA-6. The CDK inhibitor p21 is an important cell cycle regulatory protein which inhibits cell cycle progression at both the G1 and G2 checkpoints. The expression of p21 is inducible by a wide range of stress stimuli.</p> <p>Mouse anti Human p21/WAF1 antibody, clone WA-1 detects a band of approximately 21 kDa in MCF-7 cell lysates following UV radiation by western blotting.</p>
References	<ol style="list-style-type: none"> Horký, M. <i>et al.</i> (1997) Induction of cell-cycle inhibitor p21 in rat ventricular myocytes during early postnatal transition from hyperplasia to hypertrophy. Physiol Res. 46 (3): 233-5. Kolár, Z. <i>et al.</i> (2000) Relation of Bcl-2 expression to androgen receptor, p21WAF1/CIP1, and cyclin D1 status in prostate cancer. Mol Pathol. 53 (1): 15-8. Khanna, S.J. <i>et al.</i> (2001) v-Abl protein-tyrosine kinase up-regulates p21WAF-1 in cell cycle arrested and proliferating myeloid cells. J Biol Chem. 276 (14): 11143-50. Blaydes, J.P. <i>et al.</i> (2001) Stoichiometric phosphorylation of human p53 at Ser315 stimulates p53-dependent transcription. J Biol Chem. 276 (7): 4699-708. Scott, M.T. <i>et al.</i> (2002) PDK1-dependent activation of atypical PKC leads to degradation of the p21 tumour modifier protein. EMBO J. 21 (24): 6771-80.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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/MCA2325>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M414527:221211'

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