

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 antibody 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 antibody 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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human p21 protein.

**External Database
Links**

UniProt:

[P38936](#)

[Related reagents](#)

Entrez Gene:

[1026](#)

CDKN1A

[Related reagents](#)

Synonyms

CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1

Specificity

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.

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.

References

1. Horký, M. *et al.* (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.](#)
2. Kotala, V. *et al.* (2001) Potent induction of wild-type p53-dependent transcription in tumour cells by a synthetic inhibitor of cyclin-dependent kinases. [Cell Mol Life Sci. 58 \(9\): 1333-9.](#)
3. Kolár, Z. *et al.* (2000) Relation of Bcl-2 expression to androgen receptor, p21WAF1/CIP1, and cyclin D1 status in prostate cancer. [Mol Pathol. 53 \(1\): 15-8.](#)
4. Khanna, S.J. *et al.* (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.](#)
5. Scott, M.T. *et al.* (2002) PDK1-dependent activation of atypical PKC leads to degradation of the p21 tumour modifier protein. [EMBO J. 21 \(24\): 6771-80.](#)
6. Blaydes, J.P. *et al.* (2001) Stoichiometric phosphorylation of human p53 at Ser315 stimulates p53-dependent transcription. [J Biol Chem. 276 \(7\): 4699-708.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.

This product should be stored undiluted. 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

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

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

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

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