

Datasheet: MCA1709

Description:	MOUSE ANTI MDM2
Specificity:	MDM2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SMP14
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)	■			1/200 - 1/500
Immunohistology - Resin	■			
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

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. EDTA pH8.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Synthetic peptide, CSRPTSSRRRAISE, corresponding to amino acids 154-167 of human MDM2.

External Database Links

UniProt:

[Q00987](#)

[Related reagents](#)

Entrez Gene:

[4193](#)

MDM2

[Related reagents](#)

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63Ag8.653 myeloma cell line.

Specificity

Mouse anti MDM2 antibody, clone SMP14 recognizes the 90kDa MDM2 protein, which forms a complex with p53 leading to p53 inhibition.

MDM2 also acts to stimulate cell proliferation via its induction of transcription factors such as E2F1 and DPI.

MDM2 is over expressed in a range of human malignancies, including soft tissue sarcomas, breast cancer and bladder cancer.

Histology Positive Control Tissue

Breast Carcinoma

References

1. Picksley, S.M. *et al.* (1994) Immunochemical analysis of the interaction of p53 with MDM2;--fine mapping of the MDM2 binding site on p53 using synthetic peptides. [Oncogene. 9 \(9\): 2523-9.](#)
2. Martin, K. *et al.* (1995) Stimulation of E2F1/DP1 transcriptional activity by MDM2 oncoprotein. [Nature. 375 \(6533\): 691-4.](#)
3. Gueven, N. *et al.* (2006) Defective p53 response and apoptosis associated with an ataxia-telangiectasia-like phenotype. [Cancer Res. 66: 2907-12.](#)

Storage

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

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , 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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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Printed on 01 Aug 2018