

## Datasheet: MCA1709T

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | MOUSE ANTI MDM2     |
| <b>Specificity:</b>  | MDM2                |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Monoclonal Antibody |
| <b>Clone:</b>        | SMP14               |
| <b>Isotype:</b>      | IgG1                |
| <b>Quantity:</b>     | 20 µg               |

## 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](http://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        | ▪   |    |                |                    |

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.**

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

|  |   |
|--|---|
| <b>Immunogen</b>                         | Synthetic peptide, CSRPSTSSRRRAISE, corresponding to amino acids 154-167 of human MDM2.   |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">Q00987</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">4193</a>    MDM2    <a href="#">Related reagents</a></p>   |
| <b>Fusion Partners</b>                   | Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63Ag8.653 myeloma cell line.  |
| <b>Specificity</b>                       | <p><b>Mouse anti MDM2 antibody, clone SMP14</b> recognizes the 90kDa MDM2 protein, which forms a complex with p53 leading to p53 inhibition.</p> <p>MDM2 also acts to stimulate cell proliferation via its induction of transcription factors such as E2F1 and DPI.</p> <p>MDM2 is over expressed in a range of human malignancies, including soft tissue sarcomas, breast cancer and bladder cancer.</p>   |
| <b>Histology Positive Control Tissue</b> | Breast carcinoma  |
| <b>References</b>                        | <ol style="list-style-type: none"> <li>Picksley, S.M. <i>et al.</i> (1994) Immunochemical analysis of the interaction of p53 with MDM2;--fine mapping of the MDM2 binding site on p53 using synthetic peptides. <a href="#">Oncogene. 9 (9): 2523-9.</a></li> <li>Martin, K. <i>et al.</i> (1995) Stimulation of E2F1/DP1 transcriptional activity by MDM2 oncoprotein. <a href="#">Nature. 375 (6533): 691-4.</a></li> <li>Gueven, N. <i>et al.</i> (2006) Defective p53 response and apoptosis associated with an ataxia-telangiectasia-like phenotype. <a href="#">Cancer Res. 66: 2907-12.</a></li> </ol> |
| <b>Storage</b>                           | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>  |
| <b>Shelf Life</b>                        | 18 months from date of despatch.  |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>   |
| <b>Regulatory</b>                        | 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 \(MCA928\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

'M318829:180719'

Printed on 01 Aug 2018

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)