

## Datasheet: MCA1701F

|                      |                               |
|----------------------|-------------------------------|
| <b>Description:</b>  | MOUSE ANTI p53 (aa20-25):FITC |
| <b>Specificity:</b>  | p53 (aa20-25)                 |
| <b>Format:</b>       | FITC                          |
| <b>Product Type:</b> | Monoclonal Antibody           |
| <b>Clone:</b>        | DO-1                          |
| <b>Isotype:</b>      | IgG2a                         |
| <b>Quantity:</b>     | 0.1 mg                        |

## Product Details

**RRID** AB\_323307

### 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 (1) | ■   |    |                | 1/2 - 1/10         |

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) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Bovine, Cat, Horse, Green Monkey

Does not react with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

### Max Ex/Em

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-------------|---------------------|-------------------|
| FITC        | 490                 | 525               |

### Preparation

Purified IgG prepared by affinity chromatography on Protein A

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide

### Stabilisers

1% Bovine Serum Albumin

### Approx. Protein Concentrations

IgG concentration 0.1mg/ml

|                                |   |
|--------------------------------|---|
| <b>Immunogen</b>               | Recombinant human p53.  |
| <b>External Database Links</b> | <p><b>UniProt:</b><br/> <a href="#">P04637</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">7157</a> TP53   <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                | P53   |
| <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 Human p53 antibody, clone DO-1</b> recognizes the human p53 tumor suppressor protein, also known as cellular tumor antigen p53 or NY-CO-13. Clone DO-1 binds to both wild type and mutant forms of the p53 protein found in various malignancies (<a href="#">Kern et al. 1992</a>). p53 is important in multicellular organisms, where it regulates cell cycle progression to allow DNA repair or apoptosis in the case of irreparably damaged cells (<a href="#">Haupt et al. 2003</a>) and thus functions as a tumor suppressor that is involved in preventing cancer. Mutations in the p53 gene are found in about half the cases of human cancer (<a href="#">Joerger andFersht 2007</a>)</p> <p>Mouse anti Human p53 antibody, clone DO-1 recognizes an epitope at the N-terminal end of p53 between amino acids 20-25,common to isoforms 1-3 of p53.</p>  |
| <b>Flow Cytometry</b>          | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.   |
| <b>References</b>              | <ol style="list-style-type: none"> <li>1. Vojtěšek B <i>et al.</i> (1992) An immunochemical analysis of the human nuclear phosphoprotein p53. New monoclonal antibodies and epitope mapping using recombinant p53. <a href="#">J Immunol Methods. 151 (1-2): 237-44.</a></li> <li>2. Sironi, G. <i>et al.</i> (1999) p53 protein expression in conjunctival squamous cell carcinomas of domestic animals. <a href="#">Vet Ophthalmol. 2 (4): 227-231.</a></li> <li>3. Levesque, M.A. <i>et al.</i> (1995) Time-resolved immunofluorometric assay of p53 protein. <a href="#">Clin Chem. 41 (12 Pt 1): 1720-9.</a></li> <li>4. Bonsing, B.A. <i>et al.</i> (1997) Specificity of seven monoclonal antibodies against p53 evaluated with Western blotting, immunohistochemistry, confocal laser scanning microscopy, and flow cytometry. <a href="#">Cytometry. 28 (1): 11-24.</a></li> <li>5. Carvalho, T. <i>et al.</i> (2009) Immunohistochemical evaluation of vascular urinary bladder tumors from cows with enzootic hematuria. <a href="#">Vet Pathol. 46 (2): 211-21.</a></li> <li>6. Phillips, A. <i>et al.</i> (2010) HDMX-L is expressed from a functional p53-responsive promoter in the first intron of the HDMX gene and participates in an autoregulatory feedback loop to control p53 activity. <a href="#">J Biol Chem. 285 (38): 29111-27.</a></li> <li>7. Bergman, L.M. <i>et al.</i> (2009) CtBPs promote cell survival through the maintenance of mitotic fidelity. <a href="#">Mol Cell Biol. 29: 4539-51.</a></li> <li>8. Hietanen, S. <i>et al.</i> (2000) Activation of p53 in cervical carcinoma cells by small molecules. <a href="#">Proc Natl Acad Sci U S A. 97 (15): 8501-6.</a></li> <li>9. Phelps, M. <i>et al.</i> (2003) p53-independent activation of the hdm2-P2 promoter through multiple transcription factor response elements results in elevated hdm2 expression in estrogen receptor alpha-positive breast cancer cells. <a href="#">Cancer Res. 63: 2616-23.</a></li> </ol> |
| <b>Storage</b>                 | Store at +4°C or at -20°C if preferred.   |

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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|--------------------------------------|--|
| <b>Guarantee</b>                     | 18 months from date of despatch.   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a> |
| <b>Regulatory</b>                    | For research purposes only   |

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
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