

Datasheet: MCA1701B

BATCH NUMBER 163624

Description:	MOUSE ANTI p53 (aa20-25):Biotin
Specificity:	p53 (aa20-25)
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	DO-1
Isotype:	IgG2a
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
Immunohistology - Paraffin	▪			Neat

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.

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Biotin - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Recombinant human p53.
External Database Links	<p>UniProt: P04637 Related reagents</p> <p>Entrez Gene: 7157 TP53 Related reagents</p>
Synonyms	P53
RRID	AB_323761
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Human p53 antibody, clone DO-1 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 (Kern <i>et al.</i> 1992). 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 (Haupt <i>et al.</i> 2003) 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 (Joerger and Fersht 2007)</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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. J Immunol Methods. 151 (1-2): 237-44. 2. Levesque, M.A. <i>et al.</i> (1995) Time-resolved immunofluorometric assay of p53 protein. Clin Chem. 41 (12 Pt 1): 1720-9. 3. Carvalho, T. <i>et al.</i> (2009) Immunohistochemical evaluation of vascular urinary bladder tumors from cows with enzootic hematuria. Vet Pathol. 46 (2): 211-21. 4. 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. J Biol Chem. 285 (38): 29111-27. 5. Bergman, L.M. <i>et al.</i> (2009) CtBPs promote cell survival through the maintenance of mitotic fidelity. Mol Cell Biol. 29: 4539-51. 6. Hietanen, S. <i>et al.</i> (2000) Activation of p53 in cervical carcinoma cells by small

molecules. [Proc Natl Acad Sci U S A. 97 \(15\): 8501-6.](#)

7. Phelps, M. *et al.* (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. [Cancer Res. 63: 2616-23.](#)

Storage

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.

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

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1701B>
10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America 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

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)

'M409723:221020'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)