

Datasheet: MCA1701B

Description:	MOUSE ANTI p53 (aa20-25):Biotin
Specificity:	p53 (aa20-25)
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	DO-1
Isotype:	lgG2a
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 product 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 product 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 reactivity is derived from testing within our laboratories, peer-repersonal communications from the originators. Please refer to further information.	eviewed publications or
Product Form	Purified IgG conjugated to biotin - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein A supernatant	from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin	

Approx. Protein Concentrations	I
Immunogen	F
External Database Links	
Synonyms	F
RRID	Å
F Danta	

IgG concentration 0.1 mg/ml

Recombinant human p53.

UniProt:

P04637 Related reagents

Entrez Gene:

7157 TP53 Related reagents

P53

AB 323761

Fusion Partners

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

Specificity

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 et al. 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 et al. 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)

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.

Flow Cytometry

Use 10µl of the suggested working dilution to label 1x10⁶ cells in 100µl

References

- 1. Vojtěsek B *et al.* (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. *et al.* (1995) Time-resolved immunofluorometric assay of p53 protein. Clin Chem. 41 (12 Pt 1): 1720-9.
- 3. Sironi, G. *et al.* (1999) p53 protein expression in conjunctival squamous cell carcinomas of domestic animals. <u>Vet Ophthalmol. 2 (4): 227-231.</u>
- 4. Hietanen, S. *et al.* (2000) Activation of p53 in cervical carcinoma cells by small molecules. <u>Proc Natl Acad Sci U S A. 97 (15): 8501-6.</u>
- 5. 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. <u>Cancer Res. 63: 2616-23.</u>
- 6. Carvalho, T. *et al.* (2009) Immunohistochemical evaluation of vascular urinary bladder tumors from cows with enzootic hematuria. <u>Vet Pathol. 46 (2): 211-21.</u>
- 7. Bergman, L.M. et al. (2009) CtBPs promote cell survival through the maintenance of

mitotic fidelity. Mol Cell Biol. 29: 4539-51. 8. Phillips, A. et al. (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. 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** Material Safety Datasheet documentation #10041 available at: Information https://www.bio-rad-antibodies.com/SDS/MCA1701B Regulatory For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M437871:250319'

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