

Datasheet: MCA1704

Description:	MOUSE ANTI HUMAN p53 (aa181-190)
Specificity:	p53 (aa181-190)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DO-11
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)	▪			1/1000
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/200 - 1/2000

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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_322636
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-11 recognizes the human Cellular tumor antigen p53, also known as p53 tumor suppressor protein or NY-CO-13. p53 is a 393 amino acid ~53kDa cytoplasmic/ nuclear protein up-regulated in response to DNA damage and is found in a wide variety of transformed cells (UniProt: P04637).</p> <p>DO-11 binds to an epitope within the central region of p53 between amino acids 181 - 190 defining a cryptic epitope exposed in unfolded/ denatured p53 (Shimitzu et al. 2006). Nine isoforms of human p53 are produced by alternative splicing and promotor usage, the epitope recognized by clone DO-11 is present in all isoforms. Mouse anti Human p53 antibody, clone DO-11 recognizes mutant forms of p53 (Warnock et al. 2011) and has been used successfully for detection of p53 by western blotting (Wei et al. 2012).</p>
Histology Positive Control Tissue	Normal human colon or breast carcinoma
References	<ol style="list-style-type: none"> 1. Vojtesek, B. <i>et al.</i> (1995) Conformational changes in p53 analysed using new antibodies to the core DNA binding domain of the protein. Oncogene. 10 (2): 389-93. 2. Palecek, E. <i>et al.</i> (2001) Binding of p53 and its core domain to supercoiled DNA. Eur J Biochem. 268: 573-81. 3. Coomber, D.W. and Ward, .R.L. (2001) Isolation of human antibodies against the central DNA binding domain of p53 from an individual with colorectal cancer using antibody phage display. Clin Cancer Res. 7: 2802-8. 4. Wei, J. <i>et al.</i> (2012) Pathogenic bacterium <i>Helicobacter pylori</i> alters the expression profile of p53 protein isoforms and p53 response to cellular stresses. Proc Natl Acad Sci U S A. 109: E2543-50. 5. Warnock, L.J. <i>et al.</i> (2011) Aurora A mediates cross-talk between N- and C-terminal post-translational modifications of p53. Cancer Biol Ther. 12: 1059-68.

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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1704 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M411091:221101'

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