

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	▪			1/1000

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. 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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human p53.

**External Database
Links**

UniProt:

[P04637](#) [Related reagents](#)

Entrez Gene:

[7157](#) TP53 [Related reagents](#)

Synonyms

P53

Fusion Partners

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

Specificity

Mouse anti Human p53 antibody, clone DO-11 recognizes the human Cellular tumor antigen p53, also known as p53 tumour 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](#)).

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](#)).

**Histology Positive
Control Tissue**

Colon or breast carcinoma

References

1. Vojtěšek, B. *et al.* (1995) Conformational changes in p53 analysed using new antibodies to the core DNA binding domain of the protein. [Oncogene. 10: 389-393.](#)
2. Palecek, E. *et al.* (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. *et al.* (2012) Pathogenic bacterium *Helicobacter pylori* 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. *et al.* (2011) Aurora A mediates cross-talk between N- and C-terminal post-translational modifications of p53. [Cancer Biol Ther. 12: 1059-68.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , 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

Recommended Negative Controls

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

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