Datasheet: MCA1703 BATCH NUMBER 161741

Description:	MOUSE ANTI p53 (aa20-25)
Specificity:	p53 (aa20-25)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DO-7
lsotype:	lgG2b
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry (1)				1/50 - 1/100
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin (2)	-			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)Membrane permeabilization is required for this application. Bio-Rad recommend the use of Leucoperm[™] (Product Code <u>BUF09</u>) for this purpose.

(2)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
Species Cross	Reacts with: Bovine
Reactivity	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 - 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	
RRID	AB_322635	
RRID Fusion Partners	AB_322635 Spleen cells from immunised BALB/c mice were fused with cell X63Ag8.653 myeloma cell line.	ls of the mouse
	Spleen cells from immunised BALB/c mice were fused with cel	53 kDa p53 tumour or Antigen NY-CO-13, ith an N-terminal DNA binding domain in the cation domain and a ontrolling cell division, cancer suppressor. In ced by DNA damage or s to growth arrest through potentially apoptosis <u>et al. 2010</u>). p53 is

Mouse anti p53 antibody, clone DO-7 recognizes an epitope at the N-terminal end of p53

	between amino acids 20-25, binding to both wild type and mutant forms. Clone DO-7 is not expected to recognize the multiple <u>isoforms</u> lacking the N-teminal region.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.				
Histology Positive Control Tissue	Colon or breast carcinoma				
References	1. Vojtěsek, 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. Xinarianos, G. <i>et al.</i> (2002) p53 status correlates with the differential expression of the DNA mismatch repair protein MSH2 in non-small cell lung carcinoma. <u>Int J Cancer. 101:</u> 248-52.				
	3. Huang, H.Y. <i>et al.</i> (2008) Immunohistochemical and biogenetic features of diffuse-type tenosynovial giant cell tumors: the potential roles of cyclin A, P53, and deletion of 15q in sarcomatous transformation. <u>Clin Cancer Res. 14: 6023-32.</u>				
	 4. lannone, F. <i>et al.</i> (2005) Increased Bcl-2/p53 ratio in human osteoarthritic cartilage: a possible role in regulation of chondrocyte metabolism. <u>Ann Rheum Dis. 64: 217-21.</u> 5. Lin, L.C. <i>et al.</i> (2006) p53 and p27 as predictors of clinical outcome for rectal-cancer patients receiving neoadjuvant therapy. <u>Surg Oncol. 15: 211-6.</u> 				
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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1703 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE	
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>		
Goat Anti Mouse IgG (STAR76)	RPE	
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>	
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,	
	DyLight®650, DyLight®680, DyLight®800,	
	<u>FITC, HRP</u>	

Rabbit Anti Mouse IgG (STAR9...)FITCGoat Anti Mouse IgG (STAR77...)HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...)

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-r	ad.com	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 'M386169:210519'

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