

# **PRODUCT INFORMATION SHEET**

Mouse Mo	onoclonal Antibody to p53								
	Format: PURE	RUO	REF	IQP-1284P	Volume:	0.1ml			
	Description								
Clone	4A8								
Isotype	Mouse IgG1								
Specificity	p53								
Alternative names	LFS1, TRP53, TP53								
Species	Human								
Immunogen	Purified recombinant fragment of human p53 expressed in E. Coli.								
Mw	43.7kDa								
Format	Ascitic fluid containin	g 0.03% sodium	azide.						
	apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasior and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity.								
Applications	1/10000.Not yet tested in other applications.Determining optimal working dilutions by titration								
Limitations	<ol> <li>Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cel using a selected marker can be affected by the choice of fluorescent label.</li> <li>Use of monoclonal antibodies in patient treatment can interfere with antigen target recogniti by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.</li> <li>Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers normal and abnormal samples.</li> <li>Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.</li> </ol>								

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## Handling and Storage

- Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.03% sodiumazide (NaN3) or as ascetic fluid containing 0.03% sodiumazide. Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.
- **Warranty** Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

#### Characterization

- To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.
- **Warning** All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

## **References** 1. Cancer Invest. 2009 Jan;27(1):96-104.

- 2. Anticancer Res. 2007 Nov-Dec;27(6B):4143-8.
- 3. Mol Cell. 2008 Feb 1;29(2):217-31.

## **Explanation of used symbols**

	Consult instructions for use
REF	Catalogue number
V	Sufficient for
	Caution, consult accompanying document
*	Keep away from (sun)light
æ	Biological risks
*	Temperature limitation (°C)
RUO	For Research Use Only
LOT	Batch code
2	Use by yyyy-mm-dd Oriont TUORESCENCE
	Manufacturer Difforment in Concession
ECREP	Authorized Representative in the European Community
ČE	Conformité Européenne (European Conformity)

P F R C A PC	PURE FITC R-PE CyQ APC PerCP	Label - tandem purified material FITC PE PE-Cy5.18	<b>Ex -max (nm)</b> - 488 488, 532 488, 532 595, 633, 635, 647 488, 532	<b>Em -max (nm)</b> - 519 578 667 660 678
PCC	PerCP-Cy5.5		488, 532	695

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