

PRODUCT INFORMATION SHEET

	Format: PURE	IO REF	IQP-1025P	Volume:	0.1ml	
	Description					
Clone	1B3					
Isotype	Mouse IgG1					
Specificity	MSH2					
Alternative names	FCC1; COCA1; HNPCC; LCFS2					
Species	Human, Monkey					
Immunogen	Purified recombinant fragment of human MSH2 expressed in E. Coli.					
Mw	105kDa					
Format	Ascitic fluid containing 0.03%	sodium azide.				
Applications	 MSH2 is a 100 kDa nuclear antigen and encodes a protein of 934 amino acids. The MSH2 gene is one of 4 known genes encoding proteins involved in the repair of mismatch nucleotides following DNA replication or repair. Mutations in the MSH2 gene contribute to the development or sporadicccolorectal carcinoma. MSHS mutations are responsible for 50% of inherited non-polyposis colorectal (HNPCC). The repair of mismatch DNA is essential to maintaining the integrity of genetic information over time. An alteration of microsatellite repeats is the result of slippage owing to strand misalignment during DNA replication and is referred to as microsatellite instability (MSI) These defects in DNA repair pathways have been related to human carcinogenesis. MSH-2 is involved in the initial cognition of mismatch nucleotides during the replication mismatch repair process. Western Blotting: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. Determine optimal working dilutions by titration test. 					
Limitations	 Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation the those with dyes like FITC and CyQ. When populations overlap, the percentage of positive causing a selected marker can be affected by the choice of fluorescent label. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognit by this reagent. This should be taken into account when samples are analyzed from patient treated in this fashion. IQ Products has not characterized the effect of the presence therapeutic antibodies on the performance of this reagent. Reagents can be used in different combinations, therefore laboratories need to becomfamiliar performance characteristics of each antibody in relation with the combined markers normal and abnormal samples. Reagent data performance is based on EDTA-treated blood. Reagent performance can affected by the use of other anticoagulants. 					

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.

Warning All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

- 1. Papadopoulos, N. 1994. Science 263: 1625-1629.
- 2. Palombo, F. 1994. Nature 367:417-418.

Explanation of used symbols

REF ▼ ▲ & & RUO	Consult instructions Catalogue number Sufficient for Caution, consult ac Keep away from (s Biological risks Temperature limita For Research Use C	companying document un)light tion (°C))	
	Batch code Use by yyyy-mm-d	d		
	Manufacturer		rod	ucts
Р	PURE	Label - tandem purified material	Ex -max (nm)	Em -max (nm)
F R	FITC R-PE	FITC PE	488 488, 532	519 578 Cence
C	CyQ	PE-Cy5.18	488, 532	667
Ā	APC	-,	595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



IQ Products BV

Rozenburglaan 13a

9727 DL Groningen, The Netherlands

```
-+31 (0)50 57 57 002
```

- Technical <u>marketing@iqproducts.nl</u>
- Orders <u>orders@iqproducts.nl</u>
- <u>www.iqproducts.nl</u>