

PRODUCT INFORMATION SHEET

	Format: PURE RUO REF IQP-12	256P Volume: 100µl				
	Description					
Clone	4F2E9					
Isotype	Mouse IgG1					
Specificity	Vimentin					
Alternative names	VIM					
Species	Human, Monkey					
[mmunogen	Purified recombinant fragment of Vimentin (aa2-466) expr	ressed in E. Coli.				
Mw	54kDa					
Format	Ascitic fluid containing 0.03% sodium azide.					
	mesenchymal cells. It is believed to be involved with the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase in steroid synthesis. Immunohistochemical staining for Vimentin is characteristic of sarcomas (of neural, muscle and fibroblast origin) compared to carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognising cytokeratins, lymphoid markers, S100, desmin and neurofilaments.					
Applications	ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000					
Limitations	 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 cells using a selected marker can be affected by the choice of fluorescent label. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition 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 or therapeutic antibodies on the performance of this reagent. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants. 					
⚠ 參∦ 巻 🛛 Handling and	3					

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.Cancer Res. 2003 May 15;63(10):2658-64. 2.Exp Cell Res. 2007 Oct 15;313(17):3718-28.

Explanation of used symbols

REF	Consult instruction					
KEF] ▼	Catalogue number Sufficient for	I				
▲ ※ ⊗	Caution, consult a Keep away from (Biological risks					
	Temperature limitation (°C)					
RUO LOT	For Research Use	Only				
X	Batch code	dd				
	Use by yyyy-mm- Manufacturer	uu				
			roa	UCTS_		
		Label - tandem	Ex -max (nm)	Em -max (nm)		
P F	PURE	purified material	-	-		
F	PURE FITC R-PE		- 488	- 519		
F R C	FITC R-PE CyQ	purified material FITC	- 488 488, 532 488, 532	519 578 667 Cence		
F R C A	FITC R-PE CyQ APC	purified material FITC PE	- 488 488, 532 488, 532 595, 633, 635, 647	519 578 667 660		
F R C A PC	FITC R-PE CyQ APC PerCP	purified material FITC PE	- 488 488, 532 488, 532 595, 633, 635, 647 488, 532	519 578 667 660 678		
F R C A	FITC R-PE CyQ APC	purified material FITC PE	- 488 488, 532 488, 532 595, 633, 635, 647	519 578 667 660		

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