

## **PRODUCT INFORMATION SHEET**

	Format: PURE RUO REF IQP-1660P Volume: 0.1ml							
Ĩi	Description							
Clone	4D12							
sotype	Mouse IgG1							
Specificity	NQ01							
Alternative names	DTD; QR1; DHQU; DIA4; NMOR1; NMORI							
Species Immunogen	Human Purified recombinant fragment of human NQO1 expressed in E. Coli.							
Mw Format	31kDa Ascitic fluid containing 0.03% sodium azide.							
Summary	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized.							
Applications	Western Bloting: 1/500 - 1/2000.Immunohistochemistry: 1/200 - 1/1000.Flow cytometry: 1/200 - 1/400.ELISA: Propose dilution 1/10000.Not yet tested in other applications.Determining optimal working dilutions by titration test.							
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 cells 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 recognitio 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 in 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>							

## ▲ ֎ ∦ 茶 🛛 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.			
Characteriza	tion 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. Mol Cancer Ther. 2009 Dec;8(12):3369-78. 2. J Biol Chem. 2009 Nov 27;284(48):33233-41.

## Explanation of used symbols

REF	Consult instructions for use			
	Catalogue number Sufficient for			
V	Suncient for			
$\triangle$	Caution, consult accompanying document			
*	Keep away from (sun)light			
<b>&amp;</b>	Biological risks			
X	Temperature limitation (°C)			
RUO	For Research Use Only			
LOT	Batch code			
2	Use by yyyy-mm-dd			
- <b>11</b>	Manufacturer			
EC REP	Authorized Representative in the European Community			
CE	Conformité Européenne (European Conformity)			

		Label - tandem	Ex -max (nm)	Em -max (nm)
Р	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE DIC	488, 532	578 CANCA
С	CyQ	PE-Cy5.18	488, 532	667
Α	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



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