

## **PRODUCT INFORMATION SHEET**

Mouse Mon	Mouse Monoclonal Antibody to CCND1							
	Format: PURE	RUO	REF IC	QP-1417P	Volume:	0.1ml		
	Description							
Clone	3D8							
Isotype	Mouse IgG1							
Specificity	CCND1							
Alternative names	BCL1; PRAD1; U21B31; D11S287E; CCND1							
Species	Human							
Immunogen	Purified recombinant fragment of human CCND1 expressed in E. Coli.							
Mw	33.7kDa							
Format	Ascitic fluid containing 0.03% sodium azide.							
Summary	During each cell cycle cyclins undergo periodic accumulation and destruction. As key regulators of the cell cycle the cyclins control important transitions by acting as regulatory subunits of the Cdks. Early in the G1 phase of the cell cycle, cyclin D1 induction is followed by cyclin E induction. This sequential progression is marked early on in G1 by the activation of Cdk4 and in mid to late G1 by the activation of Cdk2 and the hyperphosphorylation of pRB. The final transition into S phase is thought to be dependent on the increased expression and association of cyclin E and Cdk2. In a recent study, Cyclin D1 regulates cellular metabolism, fat cell differentiation and cellular migration. Cyclin D1 is also involved in development and cancer. Cyclin D1 has also been linked to the development and progression of several cancers including breast, bladder, esophagus, and lung.							
Applications	Western Blotting: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications Determine optimal working dilutions by titration test.							
Limitations	<ol> <li>Conjugates with those with dyes</li> </ol>	brighter fluoroch like FITC and CyC	romes, like PE ). When popula	and APC, wil ations overlap	have a great , the percenta	er separation than ge of positive cells		
<ul> <li>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 targe by this reagent. This should be taken into account when samples are analyzed treated in this fashion. IQ Products has not characterized the effect of the therapeutic antibodies on the performance of this reagent.</li> <li>Reagents can be used in different combinations, therefore laboratories performance of the second sec</li></ul>						target recognition yzed from patients f the presence of		
	familiar performa normal and abno	ance characteristic rmal samples.	cs of each anti	body in relatio	on with the co	mbined markers in		

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 sodium azide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

### References

1.J Orthop Sci. 2009 Sep;14(5):623-30. 2.Mod Pathol. 2010 Feb;23(2):225-34.

### **Explanation of used symbols**

Consult instructions for use	
Catalogue number	
Sufficient for	
Caution, consult accompanying docum	ent
Keep away from (sun)light	
Biological risks	
Temperature limitation (°C)	
For Research Use Only	
Batch code	(
Use by yyyy-mm-dd	2
Manufacturer	
	Consult instructions for use Catalogue number Sufficient for Caution, consult accompanying docum Keep away from (sun)light Biological risks Temperature limitation (°C) For Research Use Only Batch code Use by yyyy-mm-dd Manufacturer

		Label - tandem	Ex -max (nm)	Em -max (nm)
Р	PURE	purified material		
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
С	CyQ	PE-Cy5.18	488, 532	667
Α	APC	brig	595, 633, 635, 647	660
PC	PerCP	DIIG	488, 532	678
PCC	PerCP-Cy5.5	9	488, 532	695

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