

## **PRODUCT INFORMATION SHEET**

	Format: PURE	RUO	REF	IQP-1335P	Volume:	0.1ml	
	Description						
Clone	1B6						
sotype	Mouse IgG2b						
Specificity	AKT2						
Alternative names	PKBB; PRKBB; PKBBETA; RAC-BETA						
Species	Human, Rat & Monkey						
(mmunogen	Purified recombinant fragment of human AKT2 expressed in E. Coli.						
٩w	60kDa						
ormat	Ascitic fluid containing 0.03% sodium azide.						
Summary	Akt2 (also designated protein kinase B beta or v-akt murine thymoma viral oncogene homolog 2 with 481-amino acid protein (about 53kDa), belongs to the AKT serine/threonine protein kinase family, which also includes Akt1 and Akt3. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycoge synthesis and glucose uptake. Among the members of AKT family, Akt2 is associated with the development of human cancers. Akt2 inhibits cisplatin-induced JNK/p38 and Bax activation through phosphorylation of ASK1 and thus, plays an important role in chemoresistance. Further, Akt2 plays a specific role in muscle differentiation.						
Applications	Western Bloting: 1/5 1/200 - 1/1000.ELIS, optimal working dilut	A: Propose dilutio	n 1/10000.				
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 cell 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 recognitic 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 i 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>						

## ▲ 象 ¥ 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.

nform to the quantity and contents stated on There are no warranties, expressed or implied, of the product. IQ Products is not liable for ss caused by the product.
h batch of monoclonal antibody is tested for agent. Representative flow cytometric data is
s poisonous and hazardous. Handling should be
There are of the pr ss caused h batch c agent. Re

**References** 1. Am J Physiol Endocrinol Metab. 2004 Jul;287(1):E8-E15. 2. Oncol Rep. 2004 Jan;11(1):25-32. 3. Cancer Res. 2003 Jan 1;63(1):196-206.

## Explanation of used symbols

	Consult instructions for use
REF	Catalogue number
$\overline{\mathbb{V}}$	Sufficient for
$\wedge$	Caution, consult accompanying document
*	Keep away from (sun)light
<b>&amp;</b>	Biological risks
*	Temperature limitation (°C)
RUO	For Research Use Only
LOT	Batch code
Σ	Use by yyyy-mm-dd
	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 🦳		COLCILC
F	FITC	FITC 🧹	488	519
R	R-PE	PE	488, 532	578
С	CyQ	PE-Cy5.18	488, 532	667
А	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



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