Medix Biochemica

Anti-h PSA 8312 SPRN-5

Product overview						
Catalog number	100139					
Specificity	Antibody recognizes human prostate-specific antigen					
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.					
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 $\%$ NaCl, 0.095 $\%$ NaN $_3$ as a preservative					
Shelf life and storage	36 months from manufacturing at 2–8 °C					
Subclass	lgG1					
Analyte description	Prostate-specific antigen (PSA) is a protein produced by the cells of the prostate gland. PSA is present in small quantities in the serum of healthy men, and is often elevated in the presence of prostate cancer and in other prostate disorders. A blood test to measure PSA is considered the most effective test currently available for the early detection of prostate cancer, but this effectiveness has also been questioned.					
Parameters tested on each lot						
Product appearance	Liquid, may turn slightly opaque during storage					
Product concentration	5.0 mg/ml (+/- 10 %)					
Immunoreactivity	80–120 % compared to the reference sample in an FIA test					
IEF Profile	6.3–7.0					
Purity	≥ 95 %					
Kinetic parameters						
Association rate constant	Not Determined (N/D)					
Dissociation rate constant	N/D					
Affinity constant	3 x 10 ⁹ 1/M					
Determination method	SPR analysis (Biacore)					
Determination antigen	PSA, Scripps (Cat P0725, Lot 2206902)					



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PSA/α1-ACT complex 15 % Does not recognize human kallikrein-2 or PAP

Residues 3–11, group 6a as described in Rye et al. (1999)

Epitope

Pair recommendations

Pair recommendations			DETECTION					
			8301	8311	8312	8313 (free PSA)		
	ш	8301	-	+	+	+		
	CAPTURE	8311	+	-	-	+		
	APT	8312	+	-	-	+		
	0	8313 (free PSA)	+	+	+	-		
	Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.							
Platforms tested	FIA							
Antigens tested	Native PSA antigen, Lee Biosolutions 497-11 and 497-17, and native PSA-ACT complex, Lee Biosolutions 498-11.							
Product stability	TEMPERATURE, TIME -70 °C, 21 days -20 °C, 21 days +4 °C, 21 days +30 °C, 21 days +35 °C, 21 days +45 °C, 7 days Stability testing is performed in the temperatures affect the antigen bin antibody. Please note that the shell real time stability testing at 2–8 °C			inding, charo elf life given	uffer to see y ge or compo on the first	osition of the		
Miscellaneous	Clone 8312 reacts with non-reduced and reduced intact PSA as well as with reduced PSA fragments (Rye et al., 1999). In the same study affinities for free-PSA and PSA-ACT-complex were, 7.5×10^{-9} mol/l and 1.03×10^{-10} , respectively. They also noted that antibodies binding to epitope group 6 form a good pair with antibodies from groups 1 and 3. Clone 8312 cross-reacts with human kallikrein-2 (Rye, 1999a). Clone 8312 was coded as 5E4 in Rye et al. (1999).							
References	Inter	, P.D., Bormer, O.P. and Paus, E. (guest editors) (1999), ISOBM TD-3 mational Workshop on monoclonal antibodies against prostate-specific gen. Tumor Biol., 20(suppl 1):1-94						



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