Medix Biochemica

Anti-h CRP 6407 SPTN-5

Product overview						
Catalog number	100147					
Specificity	Antibody recognizes human C-reactive protein (CRP), binding is Ca ²⁺ independent					
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.					
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_3$ as a preservative					
Shelf life and storage	24 months from manufacturing at 2–8 °C					
Subclass	lgG1					
Analyte description	CRP is a member of the class of acute-phase reactants, as its levels rise dramatically during inflammatory processes occurring in the body. CRP rises up to 50,000-fold in acute inflammation, such as infection. It rises above normal limits within 6 hours, and peaks at 48 hours. Its half-life is constant, and therefore its level is mainly determined by the rate of production (and hence the severity of the precipitating cause). CRP is used mainly as a marker of inflammation. Measuring and charting CRP values can prove useful in determining disease progress or the effectiveness of treatments.					
Parameters tested on each lot						
Parameters tested on ea	ch lot					
Parameters tested on ea Product appearance	ch lot Liquid, may turn slightly opaque during storage					
Product appearance	Liquid, may turn slightly opaque during storage					
Product appearance Product concentration	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%)					
Product appearance Product concentration Immunoreactivity	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test					
Product appearance Product concentration Immunoreactivity IEF Profile	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test 6.5–7.2					
Product appearance Product concentration Immunoreactivity IEF Profile Purity	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test 6.5–7.2					
Product appearance Product concentration Immunoreactivity IEF Profile Purity Kinetic parameters	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test 6.5–7.2 ≥ 95 %					
Product appearance Product concentration Immunoreactivity IEF Profile Purity <u>Kinetic parameters</u> Association rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test 6.5-7.2 $\ge 95\%$ 1.1 x 10 ⁶ 1/Ms					
Product appearance Product concentration Immunoreactivity IEF Profile Purity <u>Kinetic parameters</u> Association rate constant Dissociation rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10%) 80–120% compared to the reference sample in an FIA test 6.5–7.2 \ge 95 % 1.1 x 10 ⁶ 1/Ms 1.3 x 10 ⁻⁴ 1/s					



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Cross-reactivities

Does not recognize serum amyloid-P complex

Not Determined (N/D)

Epitope

Pair recommendations			DETECTION						
			6402	6403	6404	6405	6407		
		6402	+	+	+	+	+		
	RE	6403	+	+	+	+	-		
	CAPTURE	6404	+	+	+	+	+		
	CAI	6405	+	-	+	+	+		
		6407	+	-	+	+	+		
Platforms tested	 Following pairs are especially recommended for the below mentioned assays: LF: 6402 (membrane) – 6402 (particles), 6402 – 6404, 6402 – 6405 IT: 6405 – 6405, hs-CRP (high sensitivity): 6404 – 6407, 6405 – 6407 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. FIA, LF, IT 								
Antigens tested	Recombinant CRP antigen, Lee Biosolutions 140-11R.								
Product stability	TEMPERATURE, TIMERESULT-70 °C, 21 daysOK-20 °C, 21 daysOK+4 °C, 21 daysOK+25 °C, 21 daysOK+35 °C, 21 daysOK+45 °C, 7 daysOKStability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based of								
Miscellaneous	real time stability testing at 2–8 °C in the product buffer. Note that CRP is a pentameric protein. The same antibody can thus be used both as a capture and a detection antibody.								
References	Käpyaho, K., Welin, MG., Tanner, P., Kärkkäinen, T. and Weber, T. (1989) Rapid determination of C-reactive protein by enzyme immunoassay using two monoclonal antibodies. Scand. J. Clin. Lab. Invest. 49:389-393								



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