

PRODUCT SPECIFICATIONS

Name	Anti-h ApoA1 2002 SPTN-5
Specificity	Antibody recognizes human apolipoprotein A1 (ApoA1)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100264
Product buffer solution	50 mM Na-citrate, 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
Analyte description	Apolipoprotein A1 (ApoA1) is a major component of the high-density lipoprotein complex (HDL or "good cholesterol"). ApoA1 helps to clear cholesterol from arteries. Decreased serum HDL cholesterol levels have been reported to correlate with increased risk of coronary artery disease. However, ApoA1 has been suggested as a better discrimination of coronary artery disease than HDL.

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	6.7 – 7.7
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	8×10^5 1/Ms
Dissociation rate constant	8×10^{-4} 1/s
Affinity constant	$K_A = 1 \times 10^9$ 1/M; $K_D = 1 \times 10^{-9}$ M
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Human Apolipoprotein A1, Chemicon (Cat ALP10, Lot 0507005923)

Cross-reactivities

Not Determined (N/D)

Epitope

N/D

Pair recommendations

		DETECTION	
		2001	2002
CAPTURE	2001	-	+
	2002	+	-

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.

Product stability

TEMPERATURE, TIME

-70 °C, 21 days
 -20 °C, 21 days
 +4 °C, 21 days
 +25 °C, 21 days
 +35 °C, 21 days
 +45 °C, 3 days
 +45 °C, 7 days

RESULT

Not recommended, may precipitate
 Not recommended, may precipitate
 OK
 OK
 OK
 OK
 Failed due to reduced antigen binding

Stability 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 on real time stability testing at 2-8 °C in the product buffer.

Miscellaneous

Antibody recognizes recombinant ApoA1, Medix Biochemica, 710012, 710033, 710032.

References

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