

PRODUCT SPECIFICATIONS

Name	Anti-h SAA 2201 SPTN-5
Specificity	Antibody recognizes human serum amyloid A (SAA)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100279
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	18 months from manufacturing at 2-8 °C
Analyte description	Serum amyloid A, a family of apolipoproteins, is associated with high density lipoprotein during inflammatory states. The level of serum amyloid A (SAA) in the blood increases dramatically in response to tissue injury and inflammation. SAA also acts as a cytokine, influencing cell adhesion, migration, proliferation and aggregation. SAAs are implicated in several chronic inflammatory diseases, such as amyloidosis, atherosclerosis, and rheumatoid arthritis.

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	7.5 - 8.7
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG _{2a}
Association rate constant	1.9×10^5 1/Ms
Dissociation rate constant	1.8×10^{-4} 1/s
Affinity constant	$K_A = 1.0 \times 10^9$ 1/M; $K_D = 9.6 \times 10^{-10}$ M (= 1.0 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	SAA, Santa Cruz Biotechnology (Cat sc-4870, Lot A0308)

Legal disclaimer

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Cross-reactivities Not Determined (N/D)

Epitope N/D

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	2201	2203
	2203	2201

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

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 -

References -