

## Product specifications

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Name	Anti-h Adiponectin 1901 SPTN-5
Specificity	Antibody recognizes human adiponectin
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100255
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	Adiponectin is a protein hormone that modulates a number of metabolic processes that may lead to type 2 diabetes, obesity and atherosclerosis. It has been studied as a prognostic and diagnostic marker of diabetes and cardiovascular diseases.

## Parameters tested on each lot

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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	7.4–8.6
Purity	≥ 95 %

## Kinetic parameters

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Association rate constant	$3 \times 10^5$ 1/Ms
Dissociation rate constant	$2 \times 10^{-4}$ 1/s
Affinity constant	$K_A = 1 \times 10^9$ 1/M; $K_D = 8.5 \times 10^{-10}$ M (= 0.85 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Recombinant human Adiponectin, BioVendor (Cat RD172029100)

**Cross-reactivities** Antibody recognizes both monomeric and trimeric adiponectin, oligomeric forms not tested.

**Epitope** Not Determined (N/D)

**Pair recommendations**

		DETECTION		
		1901	1902	1903
CAPTURE	1901	-	+	+
	1902	+	-	-
	1903	+	-	-

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** N/D

**Antigens tested** Recombinant Adiponectin antigen, Medix Biochemica 710013, 710030 and 710031.

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, 21 days	OK
+45 °C, 7 days	OK

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** -

