

PRODUCT SPECIFICATIONS

Name	Anti-h Adiponectin 1902 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	100256
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	12 months from manufacturing at 2-8 °C
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

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	7.1 - 8.5
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG _{2b}
Association rate constant	3×10^5 1/Ms
Dissociation rate constant	2×10^{-4} 1/s
Affinity constant	$K_A = 2 \times 10^9$ 1/M; $K_D = 6 \times 10^{-10}$ M (= 0.6 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Recombinant human Adiponectin, BioVendor (Cat RD172029100)

Legal disclaimer

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Cross-reactivities

Antibody recognizes both monomeric and trimeric adiponectin, oligomeric forms not tested.

Epitope

Not Determined (N/D)

Pair recommendations

CAPTURE ANTIBODY

1902

1901

DETECTION ANTIBODY

1901

1902

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

OK

OK

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

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References

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