PRODUCT SPECIFICATIONS

Name
Anti-h Adiponectin 1901 SPTN-S

Specificity
Antibody recognizes human adiponectin

Description
Monoclonal mouse antibody, cultured in vitro 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 % NaN₃ as a preservative

Shelf life and storage
36 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
7.4 – 8.6

Purity
≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass
IgG₁

Association rate constant
3 x 10⁵ 1/Ms

Dissociation rate constant
2 x 10⁻⁴ 1/s

Affinity constant
Kₘ = 1 x 10⁹ 1/M; Kₐ = 8.5 x 10⁻¹⁰ M (= 0.85 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

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1901</td>
<td>1902, 1903</td>
</tr>
<tr>
<td>1902, 1903</td>
<td>1901</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>TEMPERATURE, TIME</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>-70 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>-20 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+4 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+25 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+35 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>OK</td>
</tr>
</tbody>
</table>

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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