PRODUCT SPECIFICATIONS

Name: Anti-h Adiponectin 1903 SPTN-5
Specificity: Antibody recognizes human adiponectin
Description: Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components
Product code: 100257
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: 7.1 – 8.7
Purity: ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass: IgG2b
Association rate constant: $3 \times 10^5$ 1/Ms
Dissociation rate constant: $2 \times 10^{-4}$ 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)
**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>1903</td>
<td>1901</td>
</tr>
<tr>
<td>1901</td>
<td>1903</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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