PRODUCT SPECIFICATIONS

Name: Anti–h Ferritin 8806 SPTN–5

Specificity: Antibody recognizes human ferritin

Description: Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components

Product code: 100112

Product buffer solution: 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative

Shelf life and storage: 24 months from manufacturing at 2–8 °C

Analyte description: Ferritin is a protein that stores iron and releases it in a controlled fashion, in single cells and multi-celled animals. It is a buffer against iron deficiency and iron overload. Serum ferritin levels are measured in patients as part of the iron studies workup for anemia.

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: 6.6 – 7.5

Purity: ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass: IgG₁

Association rate constant: Not Determined (N/D)

Dissociation rate constant: N/D

Affinity constant: 3 x 10¹⁰ l/mol

Determination method: Radioimmunoassay (RIA)

Determination antigen: Ferritin (spleen), Chemicon (Cat AG19P, Lot 23895026)
**Cross-reactivities**

- Human ferritin (liver) 165% (Fitzgerald, Cat 30-AF10, Lot A5112405)
- Human ferritin (placenta) 170% (Chemicon, Cat AG4P, Lot A127495228)
- Human ferritin (heart) < 1.7% (Fitzgerald, Cat 30-AF05, Lot A3062901)

**Epitope**

N/D

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8806</td>
<td>8803</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>N/D</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>+30 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+35 °C, 7 days</td>
<td>N/D</td>
</tr>
<tr>
<td>+35 °C, 21 days</td>
<td>Failed due to reduced antigen binding</td>
</tr>
<tr>
<td>+45 °C, 3 days</td>
<td>Failed due to reduced antigen binding</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>Failed due to reduced antigen binding</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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