

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h Ferritin 8806 SPTN-5
<b>Specificity</b>	Antibody recognizes human ferritin
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100112
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	24 months from manufacturing at 2-8 °C
<b>Analyte description</b>	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

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80-120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	6.6 - 7.5
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	3 x 10 <sup>10</sup> l/mol
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	Ferritin (spleen), Chemicon (Cat AG19P, Lot 23895026)

### Legal disclaimer

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### Oy Medix Biochemica Ab

**Headquarters and manufacturing**  
Klovinpellontie 3  
FI-02180 Espoo, Finland

medix@medixbiochemica.com  
www.medixbiochemica.com  
VAT reg. no. FI4631532

**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**

CAPTURE ANTIBODY	DETECTION ANTIBODY
8806	8803

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	RESULT
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °C, 21 days	OK
+35 °C, 7 days	N/D
+35 °C, 21 days	Failed due to reduced antigen binding
+45 °C, 3 days	Failed due to reduced antigen binding
+45 °C, 7 days	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** -

**References** -

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