PRODUCT SPECIFICATIONS

Name          Anti–h NGAL 4203 SPTN–5
Specificity   Antibody recognizes human neutrophil gelatinase–associated lipocalin (NGAL)
Description   Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal–
derived components
Product code  100580
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 Neutrophil gelatinase–associated lipocalin (NGAL) is a small glycoprotein expressed in
the bone marrow, epithelial tissues associated with antimicrobial defense, and in the
distal tubules and collecting duct of the kidney. Elevated levels of blood and urine
NGAL are associated with acute or chronic renal failure.

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  6.3 – 7.3
Purity  ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass  IgG₁
Association rate constant  2.2 x 10⁵ 1/Ms
Dissociation rate constant Does not dissociate under conditions used
Affinity constant Not Applicable (N/A)
Determination method SPR analysis (ProteOn XPR36)
Determination antigen NGAL, Medix Biochemica (Cat 610012)
### Cross-reactivities

N/D

### Epitope

N/D

### Pair recommendations

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4203</td>
<td>4202, 4204, 4205</td>
</tr>
<tr>
<td>4202, 4204, 4205</td>
<td>4203</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>+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

Antibody recognizes NGAL antigen product no. 610012.

### References

-