PRODUCT SPECIFICATIONS

Name: Anti-h KIM–1 10106 SPTN–5
Specificity: Antibody recognizes human kidney injury molecule 1
Description: Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components
Product code: 100742
Product buffer solution: 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative
Shelf life and storage: Unspecified, storage at 2–8 °C
Analyte description: Kidney injury molecule 1 (KIM–1), also known as T–cell immunoglobulin mucin receptor 1 (TIM–1) or Hepatitis A virus cellular receptor 1 (HAVcr–1) is a type I transmembrane protein expressed in the renal tubular cells. KIM–1 is released after tubular injury and can be used in the diagnosis of acute kidney injury (AKI).

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: 6.5 – 7.0
Purity: ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass: IgG₁
Association rate constant: Not Determined (N/D)
Dissociation rate constant: N/D
Affinity constant: N/D
Determination method: –
Determination antigen: –
**Cross-reactivities**

No cross-reactivity with TIM-3/HAVcr-2/KIM-3 or TIM-4/TIMD-4.

**Epitope**

N/D

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>10106</td>
<td>10101</td>
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</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, 7 days</td>
<td>OK</td>
</tr>
<tr>
<td>+35 °C, 21 days</td>
<td>Reduced immunoreactivity</td>
</tr>
<tr>
<td>+45 °C, 3 days</td>
<td>OK</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>Reduced immunoreactivity</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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