PRODUCT SPECIFICATIONS

Name                        Anti–hCoV OC43 3504 SPTN–5
Specificity                 Antibody recognizes human coronaviruses OC43 nucleoprotein and HKU1
Description                 Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components
Product code                100531
Product buffer solution     50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative
Shelf life and storage      18 months from manufacturing at 2–8 °C
Analyte description        Human coronavirus OC43 (hCoV–OC43) is an enveloped, positive-stranded RNA virus. HCoV–OC43 causes a significant fraction of upper respiratory tract infections, especially common colds.

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                 6.1 – 7.9
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**

Does not cross-react with human coronaviruses 229E or NL63. Others not tested.

**Epitope**

N/D

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
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</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>Reduced immunoreactivity</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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