PRODUCT SPECIFICATIONS

Name
Anti-Influenza B 9905 SPTN-5

Specificity
Antibody recognizes *Influenza* B nucleoprotein (np)

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

Product code
100472

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
*Influenza* B virus is the only species in a genus in the virus family Orthomyxoviridae. *Influenza* B viruses are only known to infect humans and seals. This limited host range is apparently responsible for the lack of *Influenza* B caused influenza pandemics in contrast with those caused by the morphologically similar *Influenza* A. In addition, *Influenza* B mutates at a rate 2–3 times lower than type A. However, *Influenza* B mutates enough that lasting immunity is not possible.

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 – 7.0

Purity
≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass
IgG₁

Association rate constant
5.7 x 10⁴ 1/Ms

Dissociation rate constant
3.5 x 10⁻⁴ 1/s

Affinity constant
Kₐ = 1.6 x 10⁴ 1/M; Kᵱ = 6.1 x 10⁻⁹ M (= 6.1nM)

Determination method
SPR analysis (ProteOn XPR36)

Determination antigen
Recombinant Influenza B virus nucleoprotein from strain B/Singapore/222/79 (in-house antigen, UniProtKB P04666)
**Cross-reactivities**

Not Determined (N/D)

**Epitope**

N/D

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>9901, 9905, 9906</td>
<td>9901, 9905, 9906</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>OK, changes in IEF profile</td>
</tr>
<tr>
<td>+45 °C, 3 days</td>
<td>OK</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>OK, not recommended</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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