PRODUCT SPECIFICATIONS

Name: Anti-Influenza A 7307 SPTN-5

Specificity: Antibody recognizes Influenza A nucleoprotein (np)

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

Product code: 100083

Product buffer solution: 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative

Shelf life and storage: 12 months from manufacturing at 2-8 °C

Analyte description: Influenza A is a genus of the Orthomyxoviridae family of viruses and includes only one species which causes influenza in birds and some mammals. There are several subtypes, labeled according to an H number (for the type of hemagglutinin) and an N number (for the type of neuraminidase). There are 16 different H antigens (H1 to H16) and nine different N antigens (N1 to N9). Each virus subtype has mutated into a variety of strains with differing pathogenic profiles; some pathogenic to one species but not others, some pathogenic to multiple species.

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 – 6.9

Purity: ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass: IgG₁

Association rate constant: 1.7 x 10⁵ 1/Ms

Dissociation rate constant: 2.7 x 10⁻⁴ 1/s

Affinity constant: \( K_a = 6.3 \times 10^4 \text{ M}^{-1} \); \( K_d = 1.6 \times 10^{-9} \text{ M} (= 1.6 \text{ nM}) \)

Determination method: SPR analysis (ProteOn XPR36)

Determination antigen: Recombinant Influenza A virus nucleoprotein (in–house antigen)
**Cross-reactivities**

Antibody 7307 does not cross-react with the following bacteria or viruses:

- Coxsackie virus types: A9, B5, B6
- Echo-virus types: 2, 3, 6, 7, 9, 11, 25, 30
- Parainfluenza-virus types: 1, 2, 3
- Rhinovirus types: 1A, 2, 13, 15, 37
- Respiratory syncytial virus types: A and B
- Cytomegalovirus AD169
- Herpes simplex virus-types: 1 and 2


**Epitope**

Not Determined (N/D)

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7304</td>
<td>7307</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>N/D</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>+25 °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 H5N3, H7N3, H9N2, H5N1 and H1N1

**References**

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