PRODUCT SPECIFICATIONS

Name
Anti-Influenza A 7305 SPRN-5

Specificity
Antibody recognizes Influenza A nucleoprotein (np)

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

Product code
100082

Product buffer solution
37 mM Na-citrate, 125 mM phosphate, 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
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
6.9 – 7.7

Purity
≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass
IgG₂a

Association rate constant
4.1 x 10⁴ 1/Ms

Dissociation rate constant
7.7 x 10⁻⁴ 1/s

Affinity constant
Kₐ = 5.3 x 10⁻⁷ 1/M; Kᵦₒ = 1.9 x 10⁻⁸ M (= 19nM)

Determination method
SPR analysis (ProteOn XPR36)

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

Antibody 7305 does not cross-react with the following bacteria or viruses:

- Influenza B strains B/Fin/24/85 E, B/Fin/150/90 M, B/Fin/172/91 M, B/Fin/333/95 M
- Coxsackie -virus types: A9, A13, A18, A21, B1, B2, B3, B4, B5
- Echo-virus types: 1, 6, 7, 9, 11, 30
- Enterovirus –70
- Non-immunological reactivity with S. aureus, HSV-1 and Streptococcus group A

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>7305</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>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>+30 °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>
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</tbody>
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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 H1N1-strains: A/Fin/30/77, A/Fin/98/78, A/Fin/45/87, A/Fin/91/89, A/Fin/164/91, A/Fin/221/92, A/Fin/432/96.

References

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