

PRODUCT SPECIFICATIONS

Name	Anti-Influenza A 7304 SPRN-5
Specificity	Antibody recognizes <i>Influenza A</i> nucleoprotein (np)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100081
Product buffer solution	37 mM Na-citrate, 125mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ 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	6.1 - 8.5
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG _{2a}
Association rate constant	8.7×10^4 1/Ms
Dissociation rate constant	8.3×10^{-4} 1/s
Affinity constant	$K_A = 1.0 \times 10^8$ 1/M; $K_D = 9.5 \times 10^{-9}$ M (= 9.5 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Recombinant Influenza A virus nucleoprotein (in-house antigen)

Legal disclaimer

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Cross-reactivities

Antibody 7304 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, B6
 Echo-virus types: 1, 2, 3, 4, 5, 6, 7, 10, 18
 Parainfluenza-virus types: 1, 2, 3
 Rhino-virus types: 1A, 2, 13, 15, 37
 Respiratory syncytial virus types: 1A, 2, 13, 15, 37
 Enterovirus-70
 Cytomegalovirus AD169
 Herpes simplex virus-types: 1 and 2

S. sanguis, S. mutans, S. mitis, B. fragilis, H. influenzae, S. pneumoniae, M. catarrhalis, N. meningitides, S. agalactiae, E. faecalis, S. epidermidis, K. pneumoniae, K. monocytogenes, S. pyogenes, S. aureus, P. aeruginosa, P. vulgaris, E. coli, B. pertussis, C. albicans, N. gonorrhoeae, β-hemolytic streptococcus group C, β-hemolytic streptococcus group F, β-hemolytic streptococcus group G, M. pneumonia, S. viridians, L. monocytogenes, S. epidermidis, P. mirabilis

Non-immunological reactivity with *S. aureus*, HSV-1 and *Streptococcus* group A

Epitope

Not Determined (N/D)

Pair recommendations

CAPTURE ANTIBODY

7304

DETECTION ANTIBODY

7305, 7307

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

TEMPERATURE, TIME

-70 °C, 21 days
 -20 °C, 21 days
 +4 °C, 21 days
 +30 °C, 21 days
 +35 °C, 21 days
 +45 °C, 7 days

RESULT

N/D
 OK
 OK
 OK
 OK
 OK

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 H3N2 strains: A/Fin/65/69, A/Fin/23/76, A/Fin/31/80, A/Fin/189/92, A/Fin/262/93, A/Fin/364/95, A/Fin/371/95, A/Fin/445/96, A/Fin/539/97, A/Fin/661/99, A/Panama/2007/99.

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, A/New Caledonia/20/99.

Antibody also recognizes H5N3, H7N3, H9N2, and H5N1.

References

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