Medix Biochemica

Anti-Influenza A 7305 SPRN-5

Product overview	
Catalog number	100082
Specificity	Antibody recognizes Influenza A nucleoprotein (np)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	37 mM citrate, 125mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_{\rm 3}$ as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	lgG _{2a}
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 ea	ich lot
Parameters tested on ea Product appearance	ch lot Liquid, may turn slightly opaque during storage
Product appearance	Liquid, may turn slightly opaque during storage
Product appearance Product concentration	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %)
Product appearance Product concentration Immunoreactivity	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test
Product appearance Product concentration Immunoreactivity IEF Profile	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.6–7.5
Product appearance Product concentration Immunoreactivity IEF Profile Purity	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.6–7.5
Product appearance Product concentration Immunoreactivity IEF Profile Purity Kinetic parameters	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.6–7.5 ≥ 95 %
Product appearance Product concentration Immunoreactivity IEF Profile Purity Kinetic parameters Association rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.6-7.5 $\ge 95 \%$ 4.1 x 10 ⁴ 1/Ms
Product appearance Product concentration Immunoreactivity IEF Profile Purity <u>Kinetic parameters</u> Association rate constant Dissociation rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.6-7.5 $\ge 95 \%$ 4.1 x 10 ⁴ 1/Ms 7.7 x 10 ⁻⁴ 1/s



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Cross-reactivities Recognizes Influenza A (H3N2) group 3C.2a1b and group 3C.3a, Influenza A (H1N1)pdm09 group 6B.1A1 and group 6B.1A5. Antibody also recognizes H5N3, H7N3, H9N2, and H5N1.

Does not recognize Influenza B/ Yamagata clade 3, Victoria clade 1A, clade 1A($\Delta 2$), clade 1A($\Delta 3$); Coxsackie -virus types: A9, A13, A18, A21, B1, B2, B3, B4, B5; Echo-virus types: 1, 6, 7, 9, 11, 30; Enterovirus-70 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

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

Epitope

Not Determined (N/D)

Pair recommendations

		DETECTION		
		7304	7305	7307
RE	7304	-	+	-
PTU	7305	+	-	+
CAI	7307	-	+	-

The pair recommendations are based on antibodies binding to different epitopes. As nucleoprotein is abundant in the virus, all antibodies pair with themselves and each other.

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.

Platforms tested

Antigens tested Recombinant Influenza A NP antigen, Medix Biochemica 610050

Product stability	TEMPERATURE, TIME	RESULT
_	-70 °C, 21 days	N/D
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+25 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

FIA

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 $^{\circ}$ C in the product buffer.

Miscellaneous

References



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