



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

Subclass IgG₁

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 %)

 ${\color{red}Immunoreactivity} {\color{gray}80-120\,\%\,compared\,to\,the\,reference\,sample\,in\,an\,FIA\,test}$

IEF Profile 6.3–7.0

Purity ≥ 95 %

Kinetic parameters

Association rate constant 5.7 x 10⁴ 1/Ms

Dissociation rate constant $3.5 \times 10^{-4} \text{ 1/s}$

Affinity constant $K_A = 1.6 \times 10^8 \text{ 1/M}; K_D = 6.1 \times 10^{-9} \text{ M} (= 6.1 \text{ nM})$

Determination method SPR analysis (ProteOn XPR36)

Determination antigen Recombinant Influenza B virus nucleoprotein from strain B/Singapore/222/79 (in-house

antigen, UniProtKB P04666)





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Cross-reactivities Recognizes Influenza B/Yamagata clade 3, Influenza B/Victoria clade 1A, clade 1A (Δ2), and

clade 1A (Δ 3).

Does not recognize Influenza A (H3N2) group 3C.2a1b or group 3C.3a, Influenza A

(H1N1)pdm09 group 6B.1A1 or group 6B.1A5.

Epitope Not determined (N/D)

Pair recommendations As nucleoprotein is abundant in the virus, all Anti-Influenza B antibodies (9901, 9905, 9906,

9908 and 9909) pair with themselves and each other.

Platforms tested FIA

Antigens tested Recombinant Influenza B NP antigen, Medix Biochemica 610051

Product stability TEMPERATURE, TIME RESULT

 -70 °C, 21 days
 OK

 -20 °C, 21 days
 OK

 +4 °C, 21 days
 OK

 +35 °C, 7 days
 OK

+35 °C, 21 days Minor charge alterations

+45 °C, 7 days 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 $2-8\,^{\circ}$ C in the product

buffer.

Miscellaneous -

References -