

PRODUCT SPECIFICATIONS

Name	Anti-Influenza B 9908 SPTN-5
Specificity	Antibody recognizes <i>Influenza</i> B nucleoprotein (np)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100498
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Unspecified, storage at 2-8 °C
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 %)
Immunoreactivity	80-120 % compared to the reference sample in an FIA test
IEF Profile	6.1 - 7.0
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	5.0×10^4 1/Ms
Dissociation rate constant	4.2×10^{-4} 1/s
Affinity constant	$K_A = 1.2 \times 10^8$ 1/M; $K_D = 8.4 \times 10^{-9}$ (= 8.4 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)

Cross-reactivities Not Determined (N/D)

Epitope N/D

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	-	-

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	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK
	+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 °C in the product buffer.

Miscellaneous -

References -