Medix Biochemica

Anti-Influenza B 9909 SPTN-5

Product overview			
Catalog number	100473		
Specificity	Antibody recognizes Influenza B nucleoprotein (np)		
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.		
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_3$ as a preservative		
Shelf life and storage	36 months from manufacturing at 2–8 °C		
Subclass	IgG _{2b}		
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	6.7–8.9		
Purity	≥ 95 %		
Kinetic parameters			
Association rate constant	2.1 x 10⁵ 1/Ms		
Dissociation rate constant	1.2 x 10 ⁻³ 1/s		
Affinity constant	K _A = 1.8 x 10 ⁸ 1/M; K _D = 5.7 x 10 ⁻⁹ M (=5.7 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 (Δ 2), and clade 1A (Δ 3). Does not recognize Influenza A (H3N2) group 3C.2a1b and group 3C.3a Influenza A (H1N1)pdm09 group 6B.1A1 and group 6B.1A5.	
Epitope	Not determined (N/D)	
Pair recommendations	As nucleoprotein is abundant in the virus, all Anti-Influenza B antibodies (9901, 9906, 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 -70 °C, 21 days -20 °C, 21 days +4 °C, 21 days +35 °C, 21 days +45 °C, 3 days Stability testing is performed in the proc temperatures affect the antigen binding antibody. Please note that the shelf life real time stability testing at 2–8 °C in the	, charge or composition of the given on the first page is based on
Miscellaneous	-	
References	-	



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