

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-Influenza A 7314 SPTN-5
<b>Specificity</b>	Antibody recognizes <i>Influenza A</i> nucleoprotein (np)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100431
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	Unspecified, storage at 2-8 °C
<b>Analyte description</b>	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

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80-120 % compared to the reference in an FIA test
<b>IEF Profile</b>	6.2 - 7.0
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	$7.9 \times 10^4$ 1/Ms
<b>Dissociation rate constant</b>	$1.6 \times 10^{-4}$ 1/s
<b>Affinity constant</b>	$K_A = 4.9 \times 10^8$ 1/M; $K_D = 2.0 \times 10^{-9}$ M (= 2.0 nM)
<b>Determination method</b>	SPR analysis, ProteOn XPR36
<b>Determination antigen</b>	Recombinant Influenza A virus nucleoprotein (in-house antigen)

### Legal disclaimer

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**Cross-reactivities** Not Determined (N/D)

**Epitope** N/D

<b>Pair recommendations</b>	<b>CAPTURE ANTIBODY</b>	<b>DETECTION ANTIBODY</b>
	-	-

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.

<b>Product stability</b>	<b>TEMPERATURE, TIME</b>	<b>RESULT</b>
	-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** Antibody recognizes H1N1, H2N2, H3N2, H5N1, H7N3, and H7N9.

**References** -