

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h CYFRA21-1 1605 SPTN-5
<b>Specificity</b>	Antibody recognizes human CYFRA 21-1 fragment of cytokeratin 19
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100223
<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>	12 months from manufacturing at 2–8 °C
<b>Analyte description</b>	CYFRA 21-1 is a fragment of cytokeratin 19 which is expressed in various types of epithelial cells and tumor cells of epithelial origin. Serum CYFRA 21-1 has been used as a tumor marker of different origins and especially in non-small cell lung cancer.

## 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 sample in an FIA test
<b>IEF Profile</b>	6.7 – 7.4
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	$5 \times 10^4$ 1/Ms
<b>Dissociation rate constant</b>	$6 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 8 \times 10^8$ 1/M, $K_D = 1 \times 10^{-9}$ M
<b>Determination method</b>	SPR analysis (ProteOn XPR36)
<b>Determination antigen</b>	Recombinant human Cytokeratin 19, Biodesign (Cat A44214H, Lot 12F15608)

**Cross-reactivities**

100 % cytokeratin 19

**Epitope**

Not Determined (N/D)

**Pair recommendations**

		DETECTION			
		1602	1603	1604	1605
CAPTURE	1602	-	-	+	+
	1603	-	-	+	+
	1604	+	+	-	-
	1605	+	+	-	-

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
+25 °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 native CYFRA 21-1, Lee Biosolutions, Cat. 192-20.

**References**

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