

## PRODUCT SPECIFICATIONS

Date: 2013-02-28

<b>PRODUCT NAME</b>	:	Anti-h CYFRA21-1 1605 SPTN-5
<b>PRODUCT SPECIFICITY</b>	:	Antibody recognizes human CYFRA21-1 fragment of Cytokeratin 19
<b>PRODUCT CODE</b>	:	100223
<b>PRODUCT BUFFER</b>	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	:	12 months at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	:	CYFRA21-1 is a fragment of Cytokeratin 19 which is expressed in various types of epithelial cells and tumor cells of epithelial origin. Serum CYFRA21-1 has been used as a tumor marker of different origins and especially in non-small cell lung cancer.

## PARAMETERS TESTED FROM EACH LOT

<b>PRODUCT APPEARANCE</b>	:	Clear liquid, may turn slightly opaque during storage
<b>PRODUCT CONCENTRATION</b>	:	5.0 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	:	80 – 120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	:	6.5 – 7.3
<b>PURITY</b>	:	≥ 95 %

## PARAMETERS DETERMINED ONLY DURING PRODUCT R&amp;D PHASE

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	:	$5 \times 10^4$ 1/Ms
<b>DISSOCIATION 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>ANTIGEN</b>	:	Recombinant human Cytokeratin 19 (Bioscience cat# A44214H, lot# 12F15608)
<b>CROSS-REACTIVITIES</b>	:	100 % Cytokeratin 19

**EPITOPE** : N/D

**EPITOPE GROUP** : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

<b>PAIR RECOMMENDATIONS</b>	<b>SOLID</b>	<b>LABEL</b>
	1605	1603
	1603	1605

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

<b>PRODUCT STABILITY</b>	<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.	-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. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

<b>pH, 14 DAYS, +4 °C</b>	<b>RESULT</b>
5.0	OK
6.0	OK
7.0	OK
8.0	OK

Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 °C.

**MISCELLANEOUS** : -

**REFERENCES** : -

### Legal disclaimer

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