Medix Biochemica

Product specification
ANTIBODY
2023-04-04

Anti-h CYFRA21-1 1605 SPTN-5

Product overview

Catalog number	100223
Specificity	Antibody recognizes human CYFRA 21-1 fragment of cytokeratin 19
Description	Monoclonal mouse antibody, cultured *in vitro* 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	18 months from manufacturing at 2–8 °C
Subclass	IgG_1
Analyte description	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

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	6.7–7.4
Purity	≥ 95 %

Kinetic parameters

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

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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.

Platforms tested

FIA

Antigens tested

Native CYFRA 21-1 antigen, Lee Biosolutions 192-20

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

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References

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