Medix Biochemica

Product specification
ANTIBODY
2022-12-05

Anti-h CA19-9 4701 SPTN-5

Product overview

Catalog number	100609
Specificity	Antibody recognizes carbohydrate antigen 19-9 (CA19-9)
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_3
Analyte description	Carbohydrate antigen 19-9 (CA19-9) is a specific carbohydrate epitope called sialylated Lewis-a pentasaccharide, also known as sLea antigen. This epitope is found on several glycoproteins, including Mucin-1. In healthy individuals, the serum concentration of CA19-9 is low, but it increases during gastrointestinal malignancies, including pancreatic cancer, pancreatic or hepatobiliary adenocarcinoma, or colon 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	7.5–8.8
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-

Oy Medix Biochemica Ab
Klovinpellontie 3,
FI-02180 Espoo, Finland

medix@medixbiochemica.com
www.medixbiochemica.com
VAT reg. no. FI14631532

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Cross-reactivities

Does not recognize cancer antigens CA125 or CA15-3.
Does not recognize sialylated Lewis x (sLex) or Lewis y carbohydrate structures.
Minor cross-reactivity against sialylated Lewis c (sLec) carbohydrate structure, which is a sLea structure without fucose.

Epitope

Antibody binds to sialylated Lewis a (sLea) pentasaccharide.

Pair recommendations

CAPTURE ANTIBODY	DETECTION ANTIBODY
4701	4701

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

N/D

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 3 days	OK
+45 °C, 7 days	Reduced homogeneity

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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