

PRODUCT SPECIFICATIONS

Name	Anti-h CA19-9 4701 SPTN-5
Specificity	Antibody recognizes carbohydrate antigen 19-9 (CA19-9)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100609
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
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 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₃
Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	
Determination antigen	

Legal disclaimer

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Cross-reactivities

No cross-reactivity against cancer antigens CA125 or CA15-3. No cross-reactivity against 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
4701

DETECTION ANTIBODY
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.

Product stability

TEMPERATURE, TIME

RESULT

70 °C, 21 days	OK
20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Minor charge alterations
+45 °C, 3 days	Minor charge alterations
+45 °C, 7 days	Minor charge alterations and 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

References

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