

## PRODUCT SPECIFICATIONS

Date: 2017-04-26

<b>Name</b>	Anti-h CA19-9 4701 SPTN-5
<b>Specificity</b>	Antibody recognizes Carbohydrate Antigen 19-9 (CA19-9)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100609
<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>	Unspecified, storage at 2-8 °C
<b>Analyte description</b>	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 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>Immunoreactivity</b>	80-120 % compared to reference in an IFMA-test
<b>IEF Profile</b>	7.6 - 8.8
<b>Purity</b>	≥ 95 %

### PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>3</sub>
<b>Association constant</b>	Not Determined (N/D)
<b>Dissociation constant</b>	N/D
<b>Affinity constant</b>	N/D
<b>Determination method</b>	-
<b>Determination antigen</b>	-

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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.

<b>Pair recommendations</b>	<b>CAPTURE ANTIBODY</b>	<b>DETECTION ANTIBODY</b>
	4701	4701

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>
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 7 days	OK
	+35 °C, 21 days	Charge changes
	+45 °C, 3 days	Charge changes
	+45 °C, 7 days	Charge changes 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. The maximum duration of the test is 21 days, except for the +45 °C only 7 days. 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.

**Miscellaneous** -

**References** -