

## Product specifications

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Name	Anti-h CA125 4601 SPTN-5
Specificity	Antibody recognizes human cancer antigen 125 (CA125)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100598
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	12 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	Cancer antigen 125 is a peptide epitope on the mucin glycoprotein MUC16. CA125 is the most widely used serum biomarker to monitor epithelial ovarian cancer. It is also used for the differential diagnosis of pelvic masses.

## Parameters tested on each lot

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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	6.2–7.1
Purity	≥ 95 %

## Kinetic parameters

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

**Cross-reactivities**

Does not recognize carbohydrate antigen 19-9 (CA19-9), cancer antigen 15-3 (CA15-3), CYFRA 21-1, carcinoembryonic antigen (CEA),  $\alpha$ -fetoprotein (AFP), or human epididymis protein 4 (HE4).

**Epitope**

Antibody 4601 is OC125-like and belongs to group A (ISOBM classification) as described in Nustad et al. 1996.

**Pair recommendations**

		DETECTION	
		4601	4602
CAPTURE	4601	-	+
	4602	+	-

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 CA125 antigen, Lee Biosolutions 151-25.

**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, 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**

Nustad K, Bast RC, O'Brien TJ et al. (1996) Specificity and affinity of 26 monoclonal antibodies against the CA 125 antigen: First report from the ISOBM TD-1 Workshop. *Tumor Biol* 17:196-219.

