

## CA125 (Mucin-16) (OC125)

### Mouse anti-human CA125 (Mucin-16) Monoclonal Antibody (Clone OC125)

#### REFERENCES AND PRESENTATIONS<sup>1</sup>

- **ready-to-use (manual or LabVision AutoStainer)**  
MAD-000578QD-3  
MAD-000578QD-7  
MAD-000578QD-12
- **Ready-to-use (MD-Stainer)<sup>2</sup>**  
MAD-000578QD-3/V  
MAD-000578QD/V
- **concentrated**  
MAD-000578Q - 1:50 recommended dilution

#### COMPOSITION

Anti-human CA125 mouse monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

**INTENDED USE** : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

**CLONE:** OC125

**Ig ISOTYPE:** Mouse IgG1/k

**IMMUNOGEN:** Ovarian cancer cell line OVCA433 derived from patient with serous papillary cystadenocarcinoma

**SPECIES REACTIVITY:** In vitro diagnostics in humans. Not tested in other species

**DESCRIPTION AND APPLICATIONS:** CA 125 (Cancer Antigen 125) is a mucin-like glycoprotein with a molecular weight greater than 200 kD. OC 125 recognizes an epitope that is considered to be a peptide in nature.

Anti-CA-125 antibody reacts with epitheloid malignancies of the ovary, papillary serous carcinoma of the cervix, adenocarcinoma of the endometrium, clear cell adenocarcinoma of the bladder, and epitheloid mesothelioma. The antigen is formalin resistant, permitting the detection of ovarian cancer by immunohistochemistry, although serum assays for this protein are widely used to monitor ovarian cancer. CA 125 is located on the surface of ovarian

tumor cells with essentially no expression in normal adult ovarian tissue.

CA125 is also found in sera of patients with pancreatic, liver, colon, and other adenocarcinomas. CA 125 is found in the epithelial cells of normal colon, gall bladder, mammary gland, and stomach. Normal breast, liver, skin, and spleen are usually negative. When used with other antibodies, CA 125 antibodies are useful for the separation of colonic carcinoma from ovarian endometroid carcinoma in the pelvis and distinguishing renal clear cell carcinoma from clear cell carcinoma of the ovary and other Mullerian tumors.

**IHC POSITIVE CONTROL:** Ovarian carcinoma

**VISUALIZATION:** Cell membrane and cytoplasm

#### IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8<sup>3</sup> for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

**STORAGE AND STABILITY:**  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

<sup>1</sup> These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

<sup>2</sup> For Technical specifications for MD-Stainer, please contact your distributor.

<sup>3</sup> Ref: MAD-004072R/D



Vitro S.A

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**WARNINGS AND PRECAUTIONS:**

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

**SAFETY RECOMMENDATIONS**

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at [www.vitro.bio](http://www.vitro.bio) or can be requested at [regulatory@vitro.bio](mailto:regulatory@vitro.bio).

**BIBLIOGRAPHY**

1. Franchi M, Beretta P, Zanaboni F, et al.. Use of serum CA125 measurement in patients with endometriosis. Italian Journal of Gynaecology and Obstetrics.5 :149-153 (1993).
2. Ye C, Ito K, Komatsu Y, et al.. Extremely high levels of CA19-9 and CA125 antigen in benign mucinous ovarian cystadenoma. Gynecologic Oncology.52 :267-271 (1994).
3. Rodriguez J M. Elevated CA125 levels in association with Ki-1 anaplastic lymphoma. Clinical Oncology.6 :137 (1994).
4. Ohmori T, Okada K, Tabei R, et al.. CA125 producing adenocarcinoma of the seminal vesicle. Pathology International.4 :333-337 (1994).
5. Macri C I and Vasilev S A. Highly elevated CA125 and tubo-ovarian abscess mimicking ovarian carcinoma. Gynecologic and Obstetric Investigation.37 :143-144 (1994).
6. Alagoz T, Buller R E, Berman M, et al.. What is a normal CA125 level? Gynecologic Oncology.53 :93-97 (1994).
7. Gabriel M, Obrebowska A and Spaczynski M. Bone marrow involvement in ovarian cancer by immunohistochemical assessment. Ginekol Pol.70 (11):819-823 (1999).

**LABEL AND BOX SYMBOLS**

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet