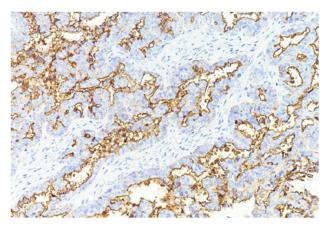


# Mouse monoclonal antibody against CA125 (Clone ISM055)



**Figure 1** Human serious carcinoma of the ovary stained with anti-CA125 antibody.

#### Product identification

ISC016-R3	3 ml ready-to-use (RTU)
ISC016-R7	7 ml ready-to-use (RTU)
ISC016-C1	1 ml concentrated

## Summary and explanation

MART-1/ Melan A is one of a group of melanocyte differentiation antigens that are expressed in melanoma cells and normal melanocytes. Peptide epitopes derived from MART-1/ Melan A antigen have been identified as targets for cytolytic Tlymphocytes (CTLs) and tumour-infiltrating lymphocytes (TILs) in the context of HLA-A2.1 and other MHC class I molecules. MART-1/ Melan A is expressed as a cytoplasmic protein in melanocytic and melanoma cells. MART-1/ Melan A is expressed in skin, retina and melanocyte cell lines but not in other normal tissues. Unlike the HMB-45 (gp100), which is a known melanosomal protein, MART-1/ Melan A is a much smaller molecule.

## Principle of the procedure

The stated primary antibody is suitable for immunohistochemical staining of FFPE tissue sections based on specific antigen-antibody reaction. Using a detection system linked to HRP or alkaline phosphatase the antigen visualization is performed via specific binding of the primary antibody. Secondary antibody is binding to the primary antibody, and the enzyme complex labels this complex. The enzymatic activation of the chromogen results in a visible reaction product at the antigen site. Each step is incubated for a precise time and temperature and requires interposed washing steps. The specimen may then be counterstained. Results are interpreted using a light microscope.

## **Materials provided**

Primary antibody	CA125
Host	Mouse
Subclass	lgG
Clone	ISM055
Species Cross-reactivity	Human. Others-not
	known
Applications	Immunohistochemistry
Epitope Retrieval	Heat-induced epitope
	retrieval
Ready-to-use antibody	Prediluted antibody in
	antibody diluent buffer
Recommended working	1:50 to 1:100
dilution range	

Product label shows the specific lot number.

Prediluted antibody is ready-to-use and optimized for staining. No further dilution, reconstitution, mixing, or titration is needed.

Antibody concentrate is optimized for dilution within dilution range using InSituChem® Antibody Diluent for IHC (Cat. No. D005-80). Indicated dilution range should be considered as recommendation and depends on different facts (tissue, fixation, incubation conditions, etc.). Optimum dilution to be determined in user's own system.

## Materials required but not provided

The following materials may be required for staining but are not provided with the primary antibody.

- Positive and negative controls
- Microscope slides (positively charged) and cover slips
- Water bath
- Humidified chamber
- Staining jars
- Stopwatch
- Xylene or xylene substitute
- Ethanol
- Deionized or distilled water
- Antigen retrieval reagent, e.g. Antigen Enhancer (HIER buffer), Cat. No. D004-500
- Detection system, e.g. IHC Complete Detection system (Goat anti mouse/rabbit HRP, DAB staining), Cat. No. D001-15
- Wash buffer: e.g. IHC Wash Buffer, Cat. No. D003-500
- Tap water/bluing reagent (e.g. ammonia water)
- Light microscope

## Storage and handling

## Store at 2 - 8 °C.

When stored correctly antibody is stable to the expiration date indicated on the vial. Do not use after expiration date.

To ensure proper reagent delivery and stability of the antibody, replace the dispenser cap after every use and immediately place the bottle cool in an upright position.

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## Staining procedure

- Cut 3-4 µm section of formalin-fixed paraffinembedded tissue and place on positively charged slides.
- 2. Dry at 65°C for 2 hours.
- Deparaffinize, rehydrate, and epitope retrieve. Upon completion, rinse with 3 changes of distilled or deionized water.
- 4. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.
- Apply the antibody and incubate for 60 minutes; rinse.
- 6. Apply the InSituVison™ Polymer Rabbit/Mouse Detection System for 30 minutes; rinse.
- 7. Apply ample amount of DAB or AEC chromogen and incubate; rinse.
- 8. Dehydrate and coverslip.

## Interpretation of results

The immunostaining procedure causes a colored reaction product to precipitate at the antigen sites localized by the primary antibody.

## Cellular localization: Cell membrane/Cytoplasm.

A qualified pathologist experienced in immunohistochemistry procedures must evaluate positive and negative tissue controls before interpreting patient specimens.

Positive staining intensity should be assessed within the context of any background staining of the negative reagent control.

Note: A negative result means that the antigen in question was not detected, but not that the antigen is not present in the cells/tissues tested. An antibody panel may be used to support the results in some circumstances. Additionally, the morphology of each tissue sample should be examined utilizing a hematoxylin and eosin stained section. A qualified pathologist must interpret the patient's morphologic findings and pertinent clinical data.

#### Warnings and precautions

- 1. Application only by qualified and trained personnel.
- 2. There are no estimated health risks, if the product is used as directed. MSDS is available on request.
- Product contains sodium azide as preservative. Pure sodium azide is toxic. The concentration of sodium azide in this reagent is < 0.1 % and is not classified hazardous. See MSDS.
- As with any product derived from biological sources, proper handling procedures should be used.
- 5. Do not use reagents after expiration date.
- 6. Take reasonable precautions when handling reagents. Use protective clothing and gloves.
- 7. All hazardous materials should be disposed according to guidelines for hazardous waste

- disposal. Materials of human or animal origin should be handled as biohazardous materials and disposed of with proper precautions.
- 8. Avoid microbial contamination of reagents as it may cause incorrect results.

## Literature

- [1] Hiroshi Kato and others, CA125 Expression in Epithelioid Sarcoma, Japanese Journal of Clinical Oncology, Volume 34, Issue 3, March 2004, Pages 149–154
- [2] Mylonas I, Makovitzky J, Richter DU, et al. Immunohistochemical expression of the tumour marker CA-125 in normal, hyperplastic and malignant endometrial tissue. Anticancer Research. 2003 Mar-Apr;23(2A):1075-1080.

## Date of publication or revision

2024-06-10 Change(s) made: -

## **Explanation of symbols**



Catalog number



Batch code



Use by



Temperature limitation



Do not use if package damaged



Consult instructions for use



Caution

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