



Mouse Anti--CA 125 Monoclonal Antibody Datasheet

Product Name: mAb anti-CA 125

Clone No.: 76

Catalogue No.: MO-T40012B

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human human cancer antigen 125 (CA125).

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human CA 125

Immunogen: Human CA 125 protein

Fusion Myeloma: Sp2/0-Ag14

Specificity: React with human CA 125

Reactivity: Human, others not tested

Species Reactivity: Not available

Host / Isotype: Mouse, IgG2a Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to reconstitute the antibody.

Storage: Store at -20°C

Research Area: Oncology

Background: Cancer antigen 125 (CA125), also called mucin16, is a heterogeneous mixture of glycoproteins with a molecular weight range of 200-1000 kDa. Its C-end is

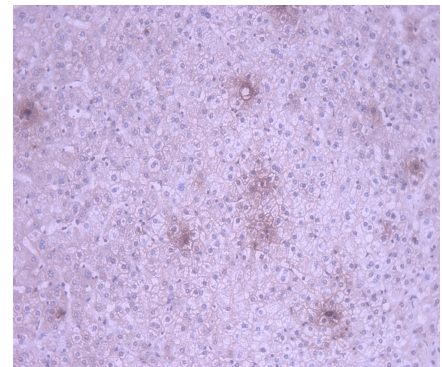
attached to cell membrane. The extra-cellular region of the molecule can be released from cell surface by proteolytic cleavage. CA125 was found to be elevated in the blood of patients with advanced ovarian cancer. It is very useful for monitoring the effects of ovarian cancer therapy and is used for predicting the outcome of the patients after treatment.

Applications:

1. ELISA: This antibody, when used at 0.5ng/mL or higher concentrations, can recognize ELISA plate wells coated with CA125 at 5 international unit per well.

2. IHC: The antibody showed positive result (Fig 1) on tissue section of liver cancer. The section was treated by heat induced epitope retrieval before primary antibody was added. The secondary antibody was an HRP-labelled goat anti-mouse IgG antibody.

Fig 1: IHC result on liver cancer section.



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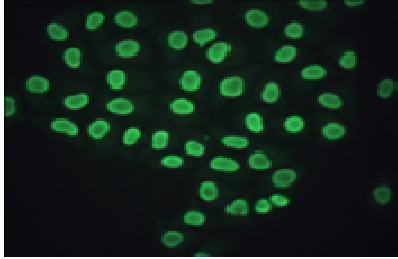
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3. Immunofluorescence:



Staining of methanol-fixed HeLa cells by Immuno-fluorescence. Anti-CA 125 mAb clone 76 was used at 10µg/mL.

References:

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