
CA125 / MUC16 (Clone ZM53)

Mouse Monoclonal Antibody

Specificity: Human. Others-not tested

Immunogen: Full length native CA125 protein purified from human ovarian carcinoma

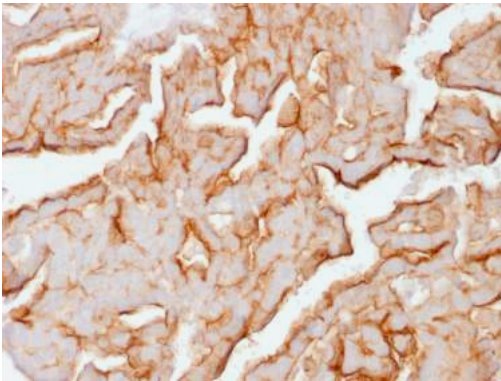
Ig Class: IgG1/κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Ovarian carcinoma. *Cellular Localization:* Extracellular membrane-associated. *Intended Use:* In vitro diagnosis (IVD).

Description: The mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs). Membrane-associated and secretory Mucins are high molecular weight glycoproteins of the glycocalyx (polysaccharide biofilm) that protects mucosal epithelium from particulate matter and microorganisms. Epithelial Mucins are large, secreted and cell surface glycoproteins crucial for adhesion modulation, signaling and epithelial cell protection. The number of repeats is highly polymorphic and varies among different alleles. The Mucin family consists of Mucins 1-4, Mucin 5 (AC and B), Mucins 6-8, Mucins 11-13 and Mucins 15-17. The Mucin 16 protein (also commonly referred to as CA125), encoded for by the gene MUC16, is a very high molecular weight tumor antigen consisting of three domains: a carboxy terminal domain, an extracellular domain and an amino terminal domain. Mucin 16, an ovarian cancer-associated antigen, is used as a marker to monitor the progress of epithelial ovarian cancer. It is a hydrophilic membrane-associated protein that may be involved in vitamin A functions.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



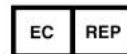
References:

1. Pizarro CB, et al. *Am J Med Sci.* 2002; 324:326-30.
2. Fan X, et al. *J Histochem Cytochem.* 2002; 50:1509-16.
3. Japon MA, et al.: *J Clin Endocrinol Metab.* 2002; 87:1879-84

Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with anti-CA125 antibody using peroxidase-conjugate and DAB chromogen. Note cell membrane staining of tumor cells

Cat. #Z2363 (1.0 ml)

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