**Product Overview:** Monoclonal Antibody to Cancer Antigen 125 (CA125), Ovarian Cancer, Group A Biotin conjugated

**Antigen Description:** CA-125 (cancer antigen 125 or carbohydrate antigen 125) also known as mucin 16 or MUC16 is a protein that in humans is encoded by the MUC16 gene. MUC16 is a member of the mucin family glycoproteins. CA-125 has found application as a tumor marker or biomarker that may be elevated in the blood of some patients with specific types of cancers, or other benign conditions. MUC16 (CA125) is a serum marker that is used routinely in gynecologic practice to monitor patients with ovarian cancer. It is a mullerian duct differentiation antigen that is overexpressed in epithelial ovarian cancer cells and secreted into the blood, although its expression is not entirely confined to ovarian cancer. Most biochemical studies have concluded that MUC16 is a high molecular mass glycoprotein, although estimates of its size range from 200 to 2000 kDa with smaller “subunits” being described by some investigators.

**Specificity:** Specific to group A.

**Immunogen:** CA125 antigen purified from human ovarian carcinoma (MW >1 million Da)

**Clone:** Y307

**Host animal:** Mouse. Hybridization of Sp2/0 myeloma. Cells with spleen cells from BALB/c mice.

**Source:** Ascites

**Format:** Purified, Liquid

**Applications:** Suitable for use in ELISA (antigen coated on plate), Western blot and IHC with frozen sections (2ug/ml). Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. Suggested pairs for ELISA: Capture Detection M86306M M86924M M86429M M86306M

**Purification:** >90% pure. Ion exchange chromatography

**Affinity Constant:** Not determined

**Gene Name:** MUC16 mucin 16, cell surface associated [**Homo sapiens**]

**Official Symbol:** MUC16

**Synonyms:** CA 125 ; CA125 ; CA125 ovarian cancer antigen ; Cancer antigen 125 ; FLJ14303 ; MUC 16 ; MUC-16 ; MUC16 ; Mucin 16 ; Mucin 16 cell surface associated ; MUC16 ; Ovarian cancer related tumor marker CA125 ; Ovarian Carcinoma Antigen CA125

**GeneID:** 94025

**mRNA Refseq:** NM_024690

**Protein Refseq:** NP_078966

**MIM:** 606154

**Chromosome Location:** 19p13.2

**Function:** protein binding

**Concentration:** 2mg/ml (OD280nm, E0.1% = 1.4)

**Buffer:** 0.15M Sodium chloride, 10mM Tris, pH 7.5

**Preservative:** 0.1% Sodium azide

**Storage:** Store at 2–8°C.

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

**REFERENCES**
