



**Category:**  
Monoclonal Antibodies

**Cat. #**  
V7034

**Product Name:**  
**MUC1 (Polymorphic Epithelial Mucin)-B416**

**Description:**  
Monoclonal Mouse Anti-Human Polymorphic Epithelial Mucin, MUC1

**Immunogen:**  
Human breast cancer cell line ZR-75-1.

**Application:**  
Immunohistochemistry 1:50-1:100; ELISA 1:500-1:5000.

**Species Reactivity:**  
Human. Others not tested.

**Recommended Positive Control:**  
Breast Carcinoma, Colon Carcinoma and Ovarian Carcinoma. Normal Breast Tissue.

**Presentation:**  
20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

**Aliquoting Instructions:**  
Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

**Staining Procedure:**  
This antibody can be used on frozen and formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 1:50-1:100. It is recommended that this product be used on frozen tissue sections or specimens.

**Specificity:**  
The dominant epitope of this antibody is the 12-mer GVTAPDTRPAP of the MUC1 tandem repeat as established with "epitope fingerprinting."

**Storage:**  
Store at 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2mg  
**Clone:** B416 (VU-3-C6)  
**Isotype:** IgG1, k  
**Host:** Mouse  
**Form:** Purified  
**Concentration:** 0.5 mg/ml  
**Units On Hand:** YES

**References:**  
1. Schol, D.J., et al., "Epitope fingerprinting" using overlapping 20-mer peptides of the MUC1 tandem repeat sequence. Tumor Biol. Suppl. in press.  
2. Price, N.R., et al., Analysis of 56 monoclonal antibodies against the MUC1 mucin. Tumor Biol. Suppl. in press.

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