

## ***Clostridium difficile* Toxin A Monoclonal Antibody**

### **ORDERING INFORMATION**

<b>Catalog No.</b>	<b>Clone No.</b>	<b>MAb Subtype</b>	<b>Size</b>
18910	PCG4	IgG2a	100ug

**Format:** 1mg/ml Protein G-purified antibody in PBS, pH 7.2, 0.1% sodium azide.

### **BACKGROUND**

*Clostridium difficile* is a Gram-positive anaerobic bacterium that is the major causative agent of colitis and diarrhea primarily in hospitalized patients who have undergone antibiotic therapy. Pathogenic *C. difficile* strains produce multiple toxins. The best characterized are Toxin A and Toxin B, both of which may produce diarrhea and inflammation in infected patients. Toxins A and B are glucosyltransferases that target and inactivate the Rho family of GTPases. *C. difficile* most commonly affects older adults in hospitals or in long-term care facilities. However, studies show increasing rates of *C. difficile* infection among people traditionally not considered high risk, such as younger and healthy individuals without a history of antibiotic use or exposure to health care facilities.

### **SPECIFICATION SUMMARY**

**Antigen:** Toxin A purified from culture filtrates of *C. difficile* 10463 and inactivated with 0.4% formalin.

**Accession no.:** AA23283

**Gene ID:** 144926

**Host Species:** Mouse

**Specificity:** This antibody recognizes *C. difficile* Toxin A. It does not cross-react with Toxin B.

### **APPLICATIONS**

**ELISA:** for detection use at 1-10ug/ml.

**Immunoblotting:** use at 0.5-2ug/ml.

**Immunofluorescence:** use at 1-5ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

### **DILUTION INSTRUCTIONS**

Dilute in PBS or medium that is identical to that used in the assay system.

### **STORAGE AND STABILITY**

These antibodies are stable for at least one (1) year at -20° to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not intended for use in therapeutic or diagnostic procedures.*