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**Mouse anti 1,3  $\beta$  glucan (Clone 2G8)  
ANT0089**

**100 $\mu$ g**

**Description**

Diseases caused by fungi are increasingly impacting on the health of populations, particularly constituting a large fraction of health care-associated infections. Subject categories at high risk of fungal infection are cancer patients under immunosuppressive chemotherapy, subjects undergoing major surgery and critically ill patients under supportive ventilation and bearing central venous and urinary catheters. Both diagnosis and antifungal therapy are of limited effectiveness in these patients, resulting into treatment failures and associated mortality. In addition, the spectrum of fungal pathogens has enlarged to include yeasts and moulds that are refractory to most antifungals, posing remarkable challenges to infection control measures. Diatheva's mAb 2G8 has been shown to be effective in multiple models of fungal diseases including vaginal and systemic *Candida* infection, invasive *Aspergillosis* and *Cryptococcus Neoformans* [1,2].

**Product type**

Primary monoclonal antibody IgG2b subclass

**Immunogen**

*Laminarin from Laminaria digitata* [1]

**Source**

Mouse

**Reacts with**

1,3  $\beta$ - glucan

**Specificity**

1,3  $\beta$ - glucan from *Candida albicans*, *Aspergillus fumigatus* and *Cryptococcus Neoformans* and occasional with  $\beta$ (1, 6)-linked branching of a single glucosyl residue [1]

**Tested applications**

ELISA

**Recommended dilutions**

Recommended starting dilutions can vary lot-to-lot. Consult the product information label in the package for lot specific values

**Note:** When using any primary antibody or fluorescence-labelled secondary antibody for the first time, titrate out the antibody to determine which dilution allows the strongest specific signal with the lowest background for your sample.

**Purity**

Monoclonal IgG2b immunoglobulins purified by protein A affinity chromatography.

**Form**

Liquid. Supplied in 100mM sodium citrate, 50mM Tris and 0.05% v/v glycerol. Neutral pH.

**Storage**

Shipped at -20°C. For extended storage, the solution may be frozen at -20°C in working aliquots. **Note:** Avoid repeated freezing and thawing cycles.

**Reference**

[1] Torosantucci A, Bromuro C, Chiani P. et al. A novel glyco-conjugate vaccine against fungal pathogens. *J Exp Med.* 2005 Sep 5; 202(5): 597–606.

[2] Rachini A, Pietrella D, Torosantucci A. et al. An Anti- $\beta$ -Glucan Monoclonal Antibody Inhibits Growth and Capsule Formation of *Cryptococcus neoformans* In Vitro and Exerts Therapeutic, Anticryptococcal Activity In Vivo. *Infect Immun.* 2007 Nov; 75(11): 5085–5094.