SANTA CRUZ BIOTECHNOLOGY, INC.

Candida albicans (CDA): sc-51811

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Candida albicans is a diploid sexual fungus that resides in the human mouth and gastrointestinal tract. An overgrowth of this fungus in the human body results in candidiasis, an opportunistic infection of the skin, gastrointestinal tract, oral cavity and esophagus, vagina and vascular system of humans. Candidiasis does not pose a threat to healthy individuals but is a cause of mortality for immunocompromised individuals, such as patients with HIV. The virulence factors which allow C. albicans to adapt to hostile conditions and to infect its host include morphogenesis, secreted aspartyl proteases and phospholipases, host recognition biomolecules and phenotypic switching. The major antigen of *C. albicans* is mannan, a polysaccharide that, along with gucan and chitin, comprises the cell surface of the fungus.

REFERENCES

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2. Calderone, R.A. and Braun, P.C. 1991. Adherence and receptor relationships of Candida albicans. Microbiol. Rev. 55: 1-20.
3. Soll, D.R. 1992. High-frequency switching in Candida albicans. Clin. Microbiol. Rev. 5: 183-203.
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5. Fonzi, W.A. and Irwin, M.Y. 1993. Isogenic strain construction and gene mapping in Candida albicans. Genetics 134: 717-728.
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7. Ibrahim, A.S., Mirbod, F., Filler, S.G., Banno, Y., Cole, G.T., Kitajima, Y., Edwards, J.E., Nozawa, Y. and Ghannoum, M.A. 1995. Evidence implicating phospholipase as a virulence factor of Candida albicans. Infec. Immun. 63: 1993-1998.
8. Brown, A.J. and Gow, N.A. 1999. Regulatory networks controlling Candida albicans morphogenesis. Trends Microbiol. 7: 333-338.
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SOURCE

Candida albicans (CDA) is a mouse monoclonal antibody raised against *Candida albicans*.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Candida albicans (CDA) is recommended for detection of Candida albicans by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

SELECT PRODUCT CITATIONS

1. Chiriacò, M.S., Primiceri, E., De Feo, F., Montanaro, A., Monteduro, A.G., Tinelli, A., Megha, M., Carati, D. and Maruccio, G. 2016. Simultaneous detection of multiple lower genital tract pathogens by an impedimetric immunochip. Biosens. Bioelectron. 79: 9-14.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.