

Brucella abortus (BrG11): sc-66117

BACKGROUND

Brucella are very small, Gram-negative coccobacilli. *Brucella abortus* is a species of *Brucella* and is the causative agent of bovine brucellosis, an infection that leads to spontaneous abortion, premature calving and infertility in cattle. *Brucella abortus* infects the placenta and fetus of gestating cows and can be transmitted to humans by drinking infected unpasteurized milk or from contact with discharges from cattle or goats that abort their fetus. Humans infected by this organism develop severe fever. *Brucella abortus* uses cyclic β -1,2-glucan as a virulence factor and to control hypoosmotic adaptation. To overcome the problem of iron deprivation that *Brucella abortus* encounters in both nature and its host, the microbe secretes the siderophores 2,3-dihydroxybenzoic acid and brucebactin, which are regulated by the protein IRR.

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RESEARCH USE

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

SOURCE

Brucella abortus (BrG11) is a mouse monoclonal antibody raised against crude *Brucella abortus* cell lysate.

PRODUCT

Each vial contains 100 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Brucella abortus (BrG11) is recommended for detection of intact *Brucella* cells of *Brucella abortus* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

STORAGE

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

PROTOCOLS

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