

# Brucella abortus (Bx88): sc-51790

## 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 unpasteurised milk or from contact with discharges from cattle or goats that abort their fetus. When humans are infected by this organism, they develop a severe fever. *Brucella abortus* uses cyclic  $\beta$ -1,2-glucan as a virulence factor and to control hypotonic adaptation. To overcome this 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.

## REFERENCES

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## SOURCE

*Brucella abortus* (Bx88) is a mouse monoclonal antibody raised against purified LPS of *Brucella abortus*.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

*Brucella abortus* (Bx88) is recommended for detection of the LPS of *Brucella abortus* origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## 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](http://www.scbt.com) for detailed protocols and support products.