



The Power to Question

Bordetella pertussis LPS (5111): sc-58092

BACKGROUND

Bordetella pertussis is a Gram-negative, non-motile coccobacilli of the genus *Bordetella*. It is the causative agent of whooping cough, also called pertussis acute, a highly communicable respiratory disease characterized in its typical form by paroxysms of coughing followed by a long-drawn inspiration. *Bordetella pertussis* are aerobic, encapsulated microbes that favor the lining of the human respiratory tract. In addition to the attachment to and growth on ciliated cells, *Bordetella pertussis* produces several exotoxins that contribute to its symptoms. The microbe inhibits many leukocyte functions, including chemotaxis and phagocytosis, and it impairs NK cell killing. Like LPS of other Gram-negative bacteria, *Bordetella pertussis* LPS cause a number of pathophysiologic effects. When released in relatively large amounts after bacterial cell lysis, the LPS cause irreversible shock and cardiovascular collapse.

REFERENCES

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SOURCE

Bordetella pertussis LPS (5111) is a mouse monoclonal antibody raised against a membrane extract of *Bordetella pertussis* LPS origin.

PRODUCT

Each vial contains 100 µg IgG₃ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Bordetella pertussis LPS (5111) is recommended for detection of *B. pertussis* and *B. bronchiseptica* by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.