BACKGROUND
Aflatoxin is a naturally occurring mycotoxin produced by two types of mold: *Aspergillus flavus* and *Aspergillus parasiticus*. *Aspergillus flavus* is common and most often found when certain grains are grown under stressful conditions such as drought. The mold occurs in soil, decaying vegetation and in hay and grains undergoing microbiological deterioration. It invades all types of organic substrates whenever and wherever the conditions are favorable for growth, specifically high moisture content and high temperature. At least 13 different types of Aflatoxin are produced in nature and Aflatoxin B1 is considered the most toxic. While the presence of *Aspergillus flavus* does not necessarily indicate harmful levels of Aflatoxin, it is a warning that Aflatoxin may be produced.

REFERENCES

SOURCE
Aflatoxin B1 (6A10) is a mouse monoclonal antibody raised against the imidazole ring-opened persistent form of Aflatoxin B1.

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

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Aflatoxin B1 (6A10) is available conjugated to agarose (sc-66016 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-66016 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-66016 PE), fluorescein (sc-66016 FITC), Alexa Fluor® 488 (sc-66016 AF488), Alexa Fluor® 546 (sc-66016 AF546), Alexa Fluor® 594 (sc-66016 AF594) or Alexa Fluor® 647 (sc-66016 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-66016 AF680) or Alexa Fluor® 790 (sc-66016 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
Aflatoxin B1 (6A10) is recommended for detection of Aflatoxin B1 of mouse, rat and human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Aflatoxin B1: 55 kDa.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 2) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and ImmunohistoMount: sc-45086, or Organo/Limonene Mount: sc-45087.

SELECT PRODUCT CITATIONS

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.