# Aflatoxin (AFC-7): sc-69862



The Power to Ouestion

#### **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**

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## **SOURCE**

Aflatoxin (AFC-7) is a mouse monoclonal antibody raised against Aflatoxin of *Aspergillus flavus* origin.

## **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  $\mu g$   $lgG_1$  lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Aflatoxin (AFC-7) is available conjugated to agarose (sc-69862 AC), 500  $\mu g/0.25$  ml agarose in 1 ml, for IP; to HRP (sc-69862 HRP), 200  $\mu g/ml$ , for WB, IHC(P) and ELISA; to either phycoerythrin (sc-69862 PE), fluorescein (sc-69862 FITC), Alexa Fluor® 488 (sc-69862 AF488), Alexa Fluor® 546 (sc-69862 AF546), Alexa Fluor® 594 (sc-69862 AF594) or Alexa Fluor® 647 (sc-69862 AF647), 200  $\mu g/ml$ , for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-69862 AF680) or Alexa Fluor® 790 (sc-69862 AF790), 200  $\mu g/ml$ , for Near-Infrared (NIR) WB, IF and FCM.

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## **APPLICATIONS**

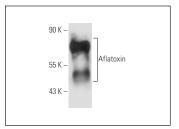
Aflatoxin (AFC-7) is recommended for detection of Aflatoxin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Aflatoxin: 55 kDa.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGλ BP-HRP: sc-516132 or m-lgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## **DATA**



Aflatoxin (AFC-7): sc-69862. Western blot analysis of recombinant Aflatoxin.

#### **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.

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