



Rat anti-Aflatoxin Monoclonal Antibody Datasheet

Product Name: mAb Rat anti-Aflatoxin

Clone No.: 1C6

Catalogue No.: MO-M40025A

Quantity: 0.5 mg/vial

Description: Rat monoclonal antibody to aflatoxin

Purification: Protein G affinity purified

Target Protein: Aflatoxin

Immunogen: Winstar rats were immunized with aflatoxin M1-BSA conjugate

Specificity: The selected monoclonal antibody is reactive to aflatoxin M1 (AFM1) and aflatoxin B1 (AFB1), but not reactive to BSA and other irrelevant antigens by indirect ELISA.

Species Aflatoxin

Reactivity:

Host / Isotype: Rat, IgG2b Kappa

Formulation: Lyophilized from a solution in 0.01MPBS, pH7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00 mg/mL.

Storage: Store at -20°C

Research Area: Toxicology, food safety and mycology

Background: Aflatoxin is a highly toxic mycotoxin produced by a few *Aspergillus* species. Ingestion of aflatoxin contaminated food causes hepatic necrosis, cirrhosis and cancer in human and animal. Exposure to high level aflatoxin results in acute

hepatic failure manifested by hemorrhage, edema, mental disorder and coma. Aflatoxin B1, the most toxic isoform, is produced by *Aspergillus flavus* and *Aspergillus parasiticus*. Aflatoxin M1 is the metabolic product of B1. M1 is found in the milk of cows that fed on contaminated feed and also in the fermentation broth of *Aspergillus parasiticus*. Chronic exposure to the toxin in milk and food impedes the normal growth and development in children.

Applications: **Indirect ELISA:** Reactive to aflatoxin M1 (AFM1) and aflatoxin B1 (AFB1).

Fluorimetric Immunoassay: Reactive to aflatoxin M1 (AFM1) and aflatoxin M2 (AFM2). (refer to reference 1)

References: Lizy Kanungo and Sunil Bhand. Fluorimetric Immunoassay for Multianalysis of Aflatoxins. Journal of Analytical Methods in Chemistry. Volume 2013, Article ID 584964, 8 pages.

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