



Rat anti-Aflatoxin Monoclonal Antibody Datasheet

Product Name: mAb Rat anti-Aflatoxin

Clone No.: 2E4

Catalogue No.: MO-M40025D

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 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 1.00mg/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: **ELISA:** Reactive to aflatoxin M1 (AFM1) and aflatoxin B1 (AFB1)

Lateral flow test: 100ng of AFM1 (Sigma) can be detected as competitive conjugate.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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