Mouse Anti-Aflatoxin B1 Monoclonal Antibody

DMABT-Z59171 Mouse(Aflatoxin B1)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Mouse Anti-Aflatoxin B1 Monoclonal Antibody
Target	Aflatoxin B1
Immunogen	Purified Aflatoxin B1
Host	Mouse
Isotype	IgG2a
Source	Mouse
Species	N/A
Clone	CHC-3
Purification	Protein G purified
conjugation	N/A
Applications	ELISA
Domain	ELISA: Use a concentration of6μg/ml.

PACKAGING

Format	Liquid
Buffer	PBS, pH7.2
Storage	Shipped at 4°C. Upon delivery aliquot and store at-20°C or-80°C. Avoid repeated freeze / thaw cycles.
Size	250μg

BACKGROUND

Introduction	The aflatoxins are agroup of closely related mycotoxins that are widely distributed in nature.The most important of the group is aflatoxin B1 (AFB1), which has a range ofbiological activities, including acute toxicity, teratogenicity, mutagenicityand carcinogenicity. In order for AFB1 to exert its effects, it must beconverted to its reactive epoxide by the action of the mixed functionmono-oxygenase enzyme systems (cytochrome P450-dependent) in the tissues (inparticular, the liver) of the affected animal. This epoxide is highlyreactive and can form derivatives with several cellular macromolecules,including DNA, RNA and protein. Cytochrome P450 enzymes may additionallycatalyse the hydroxylation (to AFQ1 and AFM1) and demethylation (to AFP1) ofthe parent AFB1 molecule, resulting in products less toxic than AFB1.Conjugation of AFB1 to glutathione (mediated by glutathione S-transferase)and its subsequent excretion is regarded as an important detoxificationpathway in animals.
Keywords	AFB1; AFB1-AR1; Aldoketoreductase 7; Aflatoxin

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