Datasheet for ABIN452582

anti-Aflatoxin antibody

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Overview

Quantity:	0.5 mg
Target:	Aflatoxin (AFT)
Reactivity:	Aspergillus
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Aflatoxin antibody is un-conjugated
Application:	Lateral Flow (LF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Winstar rats were immunized with Aflatoxin M1-BSA conjugate.
Clone:	2-00E-004
Isotype:	IgG2b
Purification:	Affinity Chromatography on Protein G.

Target Details

Target:	Aflatoxin (AFT)
Alternative Name:	Aflatoxin (AFT Products)
Target Type:	Chemical
Background:	The aflatoxins are a group of closely related mycotoxins that are widely distributed in nature. The most important of the group is aflatoxin B1 (AFB1), which has a range of biological

Target Details

	activities, including acute toxicity, teratogenicity, mutagenicity and carcinogenicity. In order for AFB1 to exert its effects, it must be converted to its reactive epoxide by the action of the mixed function mono-oxygenase enzyme systems (cytochrome P450-dependent) in the tissues (in particular, the liver) of the affected animal. This epoxide is highly reactive and can form derivatives with several cellular macromolecules, including DNA, RNA and protein. Cytochrome P450 enzymes may additionally catalyse the hydroxylation (to AFQ1 and AFM1) and demethylation (to AFP1) of the 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 detoxification pathway in animals.

Application Details

Application Notes:	ELISA: 100 ng of AFM1 can be detected as competitive conjugate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore with double distillated water to adjust the final concentration to 1.0 mg/mL.
Buffer:	0.01 M PBS, pH 7.2 without preservatives
Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Store the antibody in aliquots at -20 °C after reconstitution. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Expiry Date:	12 months