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Product datasheet for DM1000

Aflatoxin (AFM1+AFB1) Rat Monoclonal Antibody [Clone ID: 1C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1C6
Applications:	ELISA
Recommended Dilution:	ELISA (Indirect): Reactive to Aflatoxin M1 (AFM1) and Aflatoxin B1 (AFB1). Fluorimetric Immunoassay: Reactive to Aflatoxin M1 (AFM1) and Aflatoxin M2 (AFM2) (See Reference 1).
Host:	Rat
lsotype:	lgG2b
Clonality:	Monoclonal
Immunogen:	Aflatoxin M1-BSA conjugate
Specificity:	The selected monoclonal antibodies are reactive to Aflatoxin M1 (AFM1) and Aflatoxin B1 (AFB1), but not reactive to BSA and other irrelevant antigens by ELISA. Similarly, a competitive binding assay using AFM1 as binding competitor to compete with AFM1-BSA-125I showed that AFM1 can effectively inhibit the binding of this monoclonal to AFM1-BSA-125I and the inhibition degree corresponded to the amounts of AFM1 used.
Formulation:	0.01M PBS, pH 7.2 without preservatives State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore in double distillated water to adjust the final concentration to 1.0 mg/ml
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Affinity Chromatography on protein G
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C for one month or at -20°C for longer. Following reconstitution store undiluted at 2-8°C for two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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CRIGENEAflatoxin (AFM1+AFB1) Rat Monoclonal Antibody [Clone ID: 1C6] - DM1000Background: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
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.

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