

Product datasheet

Anti-Aflatoxin B1 antibody [AFA-1] ab1017

製品の概要

製品名	Anti-Aflatoxin B1 antibody [AFA-1]
製品の詳細	Mouse monoclonal [AFA-1] to Aflatoxin B1
由来種	Mouse
特異性	This antibody recognizes Aflatoxin B1. The cross reactivity with other Aflatoxins has not been verified yet.
アプリケーション	適用あり: ELISA
免疫原	Purified Aflatoxin B1

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	PBS, pH7.2
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	AFA-1
アイソタイプ	IgG2a

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab1017** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ELISA		Use a concentration of 5 µg/ml.

ターゲット情報

関連性 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. Aflatoxins are well recognized as a cause of liver cancer, but they have additional important toxic effects. Aflatoxin B1 is a potent hepatocarcinogenic and mutagenic mycotoxin of *Aspergillus flavus*.

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