

AFB1 (Aflatoxin B1) Antibody

Product Description

This antibody was developed using aflatoxin B1 (AFB1)-BSA conjugates, affinity purified with an AFB1-Agarose affinity column and competitively eluted by free AFB1. The antibody could be utilized for detection and quantization of the food-borne mycotoxin AFB1.

Species

Rabbit

Formulation

250 µg/mL in PBS with 50% glycerol, or lyophilized powder.

Storage & Stability

Product is stable for several weeks at 4°C. For extended storage, store product at -20°C. Expiration date is one year from date of shipping if properly stored.

Immunogen

Pure AFB1 conjugated to BSA

Purification

Antigen-specific affinity chromatography and free antigen competitive elution system.

Specificity

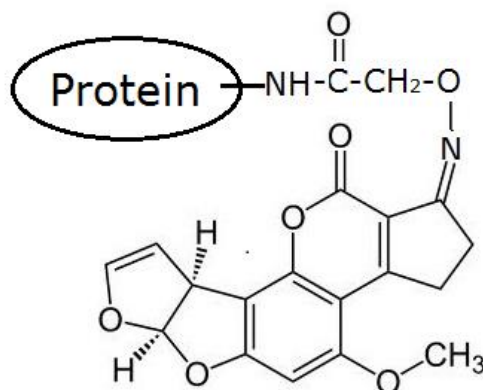
The antibody recognizes aflatoxin B1 specifically; cross reactivity to other aflatoxins not tested yet.

Applications

ELISA, gold colloid strip test
IAC (affinity chromatography)

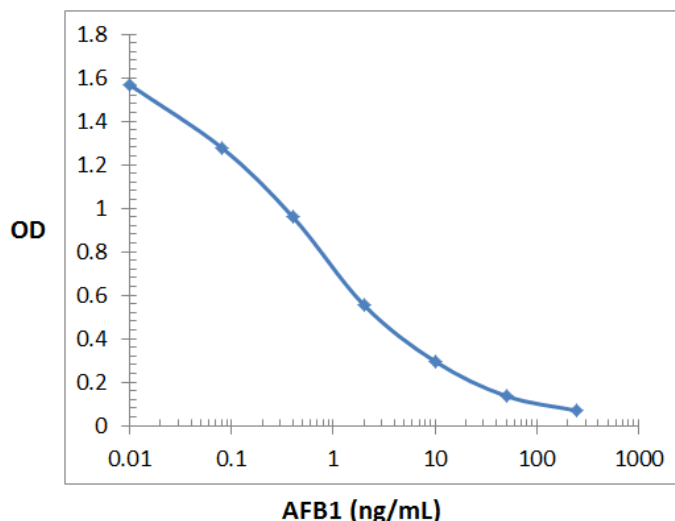
Catalog #: ICP1205

Aflatoxin B1 is a food borne mycotoxin which is carcinogenic to both humans and animals. Contamination with AFB1 in food may be harmful to humans and animals.



Structure of the Immunogen

Sample Competitive ELISA Data



Indirect competitive inhibition ELISA using immobilized AFB1-BSA (ICP0.1 µg/µL) and anti-AFB1 (0.1 µg/mL), 50% inhibition occurred at 0.7 ng/mL of free AFB1 in a non-optimized conditions.

Scientific Description

For in vitro research use only. Not recommended or intended for diagnosis of diseases in humans or animals. Do not use in humans or in animals.

MATERIAL SAFETY DATA SHEET

Article 1 - Product Identification and Use

Product Name: AFB1 (Aflatoxin B1) Antibody**Catalog #: ICP1205**

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, agricultural, nor pesticidal applications.

Manufacturer's Name: ImmuneChem Pharmaceuticals Inc.
Street Address: #253-5489 Byrne RAFB1d
City, Prov. Postal Code: Burnaby, BC, V5J 3J1
Fax: 604-431-6425
EMERGENCY PHONE: 604-453-0169

Article 2 - Hazardous Ingredients

NOT AVAILABLE. We are not aware of any hazards associated with this product or its ingredients, but the chemical, physical, and toxicological properties of this product have not been investigated thoroughly. Observe normal laboratory precautions.

Article 3 - Physical Data

Transparent liquid.

Article 4 - Fire and Explosion Hazard

NOT APPLICABLE

Article 5 - Reactivity Data

- Chemical Stability: Stable under recommended storage conditions.
 - Conditions to Avoid: Light.
 - Materials to Avoid: Strong oxidizing agents.
 - Hazardous Products: Formed under fire conditions – Carbon oxides, Hydrogen bromide gas.
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Article 6 – Toxicologically Data

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Article 7 - Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

*****MULTIPLE COMPONENT SPILL OR LEAK PROCEDURES*****

- Wear protective equipment.
 - Absorb on sand or vermiculite and place in closed containers for disposal.
 - Observe all federal, state and local environmental regulations.
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Article 8 - First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
 - In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
 - If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
 - In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.
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Article 9 - Preparation

Prepared By: Hao Xiao

Phone #: 1-604-431-6425

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. ImmuneChem shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

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