

Anti-Salbutamol Antibody [Huam003-82-2] - BSA and Azide free

ET1706-53



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	ELISA
Clone number:	Huam003-82-2

Description: Salbutamol, also known as albuterol, is a medication that opens up the medium and large airways in the lungs. It is a short-acting β_2 adrenergic receptor agonist which works by causing relaxation of airway smooth muscle. It is used to treat asthma, including asthma attacks, exercise-induced bronchoconstriction, and chronic obstructive pulmonary disease (COPD). It may also be used to treat high blood potassium levels. Salbutamol is usually used with an inhaler or nebulizer, but it is also available in a pill, liquid, and intravenous solution. Common side effects include shakiness, headache, fast heart rate, dizziness, and feeling anxious. Serious side effects may include worsening bronchospasm, irregular heartbeat, and low blood potassium levels. It can be used during pregnancy and breastfeeding, but safety is not entirely clear. In agriculture and animal husbandry, the ratio of muscle/fat can be changed to achieve the purpose of increasing fattening and growth of animals. It causes muscle tremor, muscle pain, headache, dizziness, nervousness, heart palpitations, tachycardia, and even nausea, vomiting and other symptoms of poisoning after eating animals containing higher Salbutamol. It is currently banned in food production because it may remain in the food chain and cause great harm to human health.

Immunogen: Salbutamol linked to BSA.

Recommended Dilutions:
ELISA 1:5,000-1:20,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

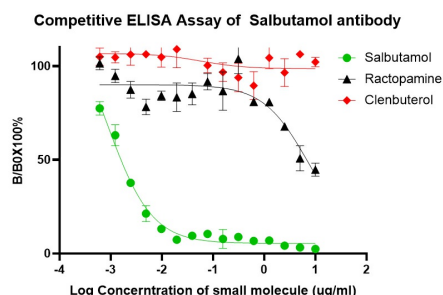


Fig1: Competitive ELISA analysis of Salbutamol/Ractopamine/Clenbuterol was performed by coating wells of a 96-well plate with 50 μ l per well of Salbutamol-BSA diluted in carbonate/bicarbonate buffer, at a concentration of 0.1 μ g/mL overnight at 4 °C. Wells of the plate were washed, blocked with 1% BSA blocking buffer, and incubated with 100 μ l per well of Salbutamol monoclonal antibody at concentration of 0.25 μ g/mL with serial diluted Salbutamol/Ractopamine/Clenbuterol starting from a concentration of 10ug/ml for 1 hours at room temperature. The plate was washed and incubated with 50 μ l per well of an HRP-conjugated goat anti-Rabbit IgG secondary antibody at a dilution of 1:15,000 for one hour at room temperature. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Pillard F et al. Medical and pharmacological approach to adjust the salbutamol anti-doping policy in athletes. *Respir Res.* 16:155 (2015).
2. Hostrup M et al. Urine concentrations of oral salbutamol in samples collected after intense exercise in endurance athletes. *Drug Test Anal.* 6(6):528-32 (2014).

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