



Mouse Anti-Nicotine Monoclonal antibody, clone 5F9 (CABT-RM236)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Nicotine
Target	Nicotine
Immunogen	Nicotine-KLH
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	5F9
Purification	>95% by SDS-PAGE and HPLC
Conjugate	unconjugated
Applications	ELISA, LFIA
Format	Liquid
Size	1 mg
Buffer	0.015M Potassium Phosphate, pH 7.2 with 0.85% Sodium Chloride
Preservative	0.05% Sodium Azide
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.
Ship	Cold Packs

BACKGROUND

Introduction

Nicotine is an alkaloid found in the nightshade family of plants (Solanaceae) that acts as a nicotinic acetylcholine agonist and a monoamine oxidase inhibitor. The biosynthesis takes place in the roots and accumulation occurs in the leaves of the Solanaceae. It constitutes approximately 0.6–3.0% of the dry weight of tobacco and is present in the range of 2–7 µg/kg of various edible plants. It functions as an antiherbivore chemical; therefore, nicotine was widely used as an insecticide in the past and nicotine analogs such as imidacloprid are currently widely used.

Keywords

Nicotine