

Product Information

Recombinant Anti-Ricinus communis Ricin Single Domain Antibody

Cat. No.: **NAB-LXY0007**

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

Antigen Description

Ricin is a highly toxic, naturally occurring lectin (a carbohydrate-binding protein) produced in the seeds of the castor oil plant, *Ricinus communis*. A dose of purified ricin powder the size of a few grains of table salt can kill an adult human. The median lethal dose (LD50) of ricin is around 22 micrograms per kilogram of body weight (1.78 mg for an average adult, around 1/228 of a standard aspirin tablet/0.4 g gross) in humans if exposure is from injection or inhalation. Oral exposure to ricin is far less toxic, and an estimated lethal dose in humans is approximately 1 milligram per kilogram.

Specific Activity

Tested positive against native human antigen.

Target

Ricin

Immunogen

The details of the immunogen for this antibody are not available.

Source

Llama

Species Reactivity

Ricinus communis

Type

Llama VHH

Expression Host

E. coli

Storage

Store at -20°C for long-term storage. Store at 2-8°C for up to one month. Avoid freeze/thaw cycles.

BACKGROUND

Introduction

Ricin is a toxalbumin that may be extracted from the castor bean (*Ricinus communis*). Ricin may cause allergic reactions and is toxic, though the severity depends on the route of exposure.