



Anti-Grain Ricin chain B polyclonal antibody (DPAB2085)

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

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal to grain ricin chain B.
Antigen Description	Ricin chain B (RTB) is a galactose/N-acetylgalactosamine-binding lectin with a molecular mass of 34kDa. RTB is normally linked by a disulfide bond to a ribosome inactivating enzyme (32kDa), also called the A chain or RTA. Together with RTA, RTB constitutes the heterodimeric cytotoxin Ricin (RCA 60) from <i>Ricinus communis</i> . This ricin, which is a type 2 RIP (ribosome-inactivating protein) is among the most potent cytotoxins in nature.
Specificity	Antibody specificity was tested by western blotting on denatured RCA 60. This antibody reacted with only one band, the upper Mr-band, i.e. the RTB. Goat antibodies raised against intact RCA 60 reacted with 2 bands on the same western blot.
Immunogen	Purified intact B-chain (RTB) from RCA 60.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	<i>Ricinus communis</i>
Conjugate	Unconjugated
Applications	ELISA, WB, Neut
Preparation	Sterile-filtered (0.22 µm pore size)
Preservative	None
Storage	4-8°C.

BACKGROUND

Introduction

Ricin, from the castor oil plant *Ricinus communis*, is a highly toxic, naturally occurring protein. A dose as small as a few grains of salt can kill an adult. The LD50 of ricin is around 22 micrograms per kilogram (1.76mg for an average adult, around 1/228 of a standard aspirin tablet (0.4g gross)) in humans if exposure is from injection or inhalation. Oral exposure to ricin is far less toxic and lethal dose can be up to 20–30 milligrams per kilogram.

Keywords

EC 3.2.2.22; Linker peptide; RCA 60; Ricin A chain; Ricin B chain; Ricin B lectin; Ricin chain B; Ricin precursor; rRNA N-glycosidase; RT B; RTB