



# Anti-Grain Ricin chain A polyclonal antibody (DPAB2084)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit polyclonal to grain ricin chain A.
<b>Antigen Description</b>	Ricin chain A (RTA) is a ribosome inactivating enzyme with a molecular weight of 32kDa. RTA is normally linked by a disulfide bond to the galactose/N-acetylgalactosamine-binding lectin (34kDa), also called the B chain or RTB. Together with RTB, RTA 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.
<b>Specificity</b>	The antibody specificity was tested by western blotting on denatured RCA 60. This antibody reacted with only one band, the lower Mr-band, i.e. the RTA.
<b>Immunogen</b>	Purified intact A-chain from RCA 60.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	<i>Ricinus communis</i>
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB, Neut
<b>Preparation</b>	Sterile-filtered (0.22 µm pore size)
<b>Preservative</b>	None
<b>Storage</b>	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**

Ricin A chain; Ricin; rRNA N glycosidase; RT A; RTA