

# PRODUCT SPECIFICATION

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## POL 008 Anti Ricin Chain B

*Rabbit polyclonal antibody*

<b>Article No.</b>	55508																	
<b>Product Name</b>	POL 008 Anti Ricin Chain B																	
<b>Description</b>	<b>Preparation:</b>	Sterile-filtered (0.22 µm pore size)																
	<b>Content:</b>	~ 10 mg/mL IgG																
	<b>Solvent:</b>	Serum with 15 mM NaN <sub>3</sub>																
	<b>Storage:</b>	2-8 °C																
<b>Antigen</b>	Ricin chain B (RTB) is a galactose/N-acetylgalactosamine-binding lectin with a molecular mass of 34 kDa. RTB is normally linked by a disulfide bond to a ribosome inactivating enzyme (32 kDa), 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.																	
<b>Immunogen</b>	Purified intact B-chain (RTB) from RCA 60.																	
<b>Specificity</b>	Antibody specificity was tested by western blotting on denatured RCA 60. POL 008 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.																	
<b>Reactivity</b>	POL 008 can be used for detection of RTB in ELISA and western blotting but only weak neutralization of Ricin in mice has been observed (1). POL 008 has also been used in biophysical analysis of toxin modulation (2).																	
<b>Immunization</b>	Rabbits were immunized s.c. with a vaccine consisting of immunogen, Freund's complete adjuvant and Al(OH) <sub>3</sub> initially and then likewise with Freund's incomplete adjuvant in subsequent immunizations.																	
<b>Application</b>	<table><thead><tr><th>Method</th><th>Usability</th><th>References</th></tr></thead><tbody><tr><td>ELISA</td><td>yes</td><td>1</td></tr><tr><td>Immunoblotting</td><td>yes</td><td>1</td></tr><tr><td>Immunofluorescence</td><td>nd.</td><td></td></tr><tr><td>Neutralization</td><td>limited</td><td>1</td></tr></tbody></table>	Method	Usability	References	ELISA	yes	1	Immunoblotting	yes	1	Immunofluorescence	nd.		Neutralization	limited	1		
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<b>References</b>	1) <b>Beyer N.H., Kogutowska E., Hansen J.J., Illigen K.E.E., Heegaard N.H.H.</b> A mouse model for ricin poisoning and for evaluating protective effects of antiricin antibodies. <i>Clin.Toxicol.</i> 2009 Mar, 47(3), 219-225. 2) <b>Ray S, Taylor M, Burlingame M, Tatulian SA, Teter K.</b> Modulation of toxin stability by 4-phenylbutyric acid and negatively charged phospholipids. <i>PLoS One.</i> 2011;6(8):e23692. doi: 10.1371/journal.pone.0023692. Epub 2011 Aug 22..																	

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