

Datasheet: MCA2866

Description:	MOUSE ANTI RICIN B CHAIN
Specificity:	RICIN B CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RB999
lsotype:	lgG1
Quantity:	0.2 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-							
	rad-antibodies.com/protocols.							
	Yes No Not Determined Suggested Dilution							
	Flow Cytometry							
	Immunohistology - Frozen							
	Immunohistology - Paraffin			•				
	ELISA	•						
	Immunoprecipitation			•				
	Western Blotting	-						
	Immunofluorescence			•				
	Functional Assays							
	necessarily exclude its use in such procedures. Suggested working dilutions are given a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.							
Target Species	Plants							
Product Form	Purified IgG - liquid							
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites							
Buffer Solution	Phosphate buffered saline							
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)							
Approx. Protein	IgG concentration 1.0mg	/ml						

External Database Links	UniProt: <u>P02879</u> <u>Related reagents</u>				
	Entrez Gene:				
	8287993 RCOM_2159910 Related reagents				
RRID	AB_1125355				
Specificity	Mouse anti Ricin B Chain antibody, clone RB999 recognizes the B chain of the ricin toxin (RCA ₆₀), a 60kDa glycoprotein. It has no cross-reactivity with agglutinin RCA ₁₂₀ .				
	The ricin toxin consists of two chains, A and B, covalently linked by a disulfide bond. The A chain acts as a glycosidase that removes an adenine residue from the 28S rRNA. The area from which the adenine is removed is essential for binding of elongation factors, destroying it leaves the ribosome inactive and unable to support protein synthesis. The A chain can inactivate a few thousand ribosomes per minute, much faster than the cell can replace them, meaning that a single ricin A chain can kill a cell.				
	The B chain binds to complex carbohydrates on the cell surface to facilitate entry of the A chain into the cell. Without the B chain, the A chain has very low toxicity.				
	Ricin is easily extracted from the castor bean (<i>Ricinus communis</i>), and the lethal dose for humans is very small. It is toxic when inhaled, ingested or injected and there is no known antidote, although a vaccine has been developed. Treatment is symptomatic and supportive, with long term organ damage likely in survivors. The ease of extraction and distribution makes it a potential candidate for biological warfare although it is less stable than other agents, such as anthrax.				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u>				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Goat Ant	i Mouse IgG (STAR77)	H	IRP		
Rabbit Ar	nti Mouse IgG (STAR12)	R	PE		
Rabbit Ar	nti Mouse IgG (STAR8)	D	yLight®800		
Goat Ant	i Mouse IgG (STAR76)	R	PE		
Goat Ant	i Mouse IgG (Fc) (STAR12	20) <u>F</u>	<u>ITC, HRP</u>		
Goat Ant	i Mouse IgG IgA IgM (STA	R87) <u>A</u>	<u>lk. Phos., HRP</u>		
Rabbit Ar	nti Mouse IgG (STAR13)	H	<u>IRP</u>		
Goat Ant	i Mouse IgG (STAR70)	E	ITC		
Rabbit Ar	nti Mouse IgG (STAR9)	E	<u>ITC</u>		
Goat Ant	i Mouse IgG (H/L) (STAR1	17) <u>A</u>	<u>lk. Phos., DyLight®488, D</u>	DyLight®550,	
		D	yLight®650, DyLight®680	0, DyLight®80	<u>00</u> ,
		E	ITC, <u>HRP</u>		
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets					

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