

Product Name: Anti-Microcystin-LR (MC-LR) scFv (R66S)

Overview

Antigen Target	Microcystin-LR (MC-LR)
Epitope	
Antibody type/clonality	Recombinant antibody fragment (single chain fragment variable (scFv))
Clone Number	R66S
Source/Host	Mouse
Species Reactivity	
Applications	ELISA, WB, Mbio lateral flow fluorescence-based immunoassay

Properties

Form	Liquid
Purity	
Specificity	Binds MC-LR 100%, MC-YR 79.7%, MC-LR 74.8%, NOD 69.3%, MC-LF 67.5%, MC-LW 63.7%, MC-RR 60.1%.
Affinity	
Concentration	2.78 mg/mL
Application working concentration	ELISA (1:1,000-1:10,000) Western blotting (1:500- 1:5,000) Mbio lateral flow immunoassay (1:10,000)
Storage	1 x PBS

Supply & Storage

Storage Conditions	-20°C in 1 x PBS. Avoid repeated freeze and thaw cycles.
Standard Shipping Volumes	200 µL
Shipping Conditions	

Additional Information

Reference on Antibody

Murphy C., Stack E., Krivelo S., McPartlin D.A., Byrne B., Greef C., Lochhead MJ., Husar G., Devlin S., Elliott C.T., O'Kennedy R.J. 'Detection of the cyanobacterial toxin, microcystin-LR, using a novel recombinant antibody-based optical-planar waveguide platform.' Biosensors and Bioelectronics. 2014; 15(67):708-14.

Application Information

SDS-PAGE and fluorescence immunoassay and analysis of anti-MC-LR scFv (Fig.1-2)

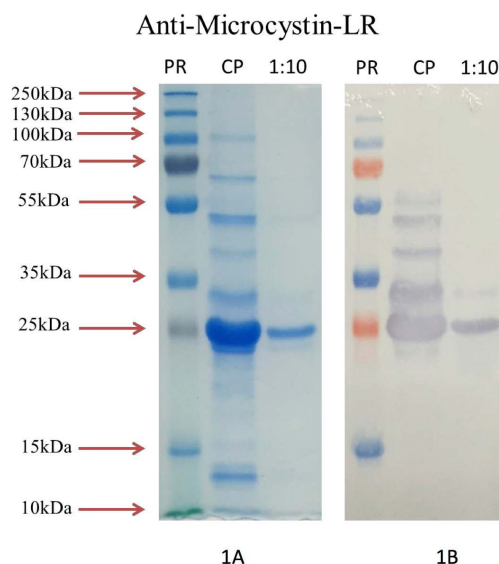


Fig. 1 SDS-PAGE and Western Blot Analysis of anti-MC-LR.

Figure 1A shows an SDS-PAGE coomassie stained gel containing the scFv (~ 25 kDa). The figure displays first the page ruler (PR), Concentrated Protein and a 1:10 dilution of the antibody. Figure 1B shows a Western blot image probe with anti-HA-HRP confirming the presence of the scFv (~ 25 kDa). The figure displays first the page ruler (PR), Concentrated Protein and a 1:10 dilution of the antibody.

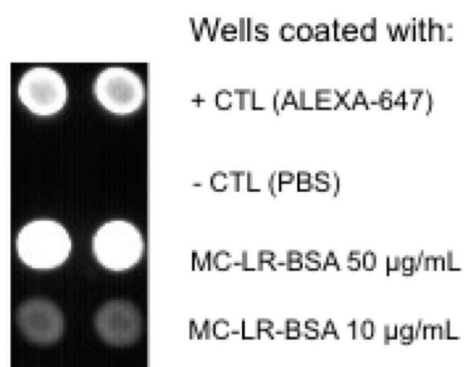


Fig. 2 A fluorescence image of anti-MC-LR scFv-Alexa647 bound to MC-LR-BSA conjugate 50 µg/mL and 10 µg/mL, the image was taken using the Mbio Snap-ESI fluorescence waveguide reader. The control well shows no background binding.

Contact Information

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