

Product Name: Anti-Human cardiac troponin I (cTnI) mAb (20B3)

Overview

Antigen Target	Human cardiac troponin I (cTnI)
Epitope	NYRAYATEPHAKKSKI
Antibody type/clonality	Monoclonal antibody
Clone Number	20B3
Source/Host	Mouse
Species Reactivity	Human
Applications	ELISA, WB

Properties

Form	Liquid
Purity	
Specificity	High
Affinity	1.84×10^{-9} M
Concentration	2.14 mg/mL
Application working concentration	ELISA (1:500-1:5,000) Western blotting (1:500-1:5,000)
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	Conroy, P.J. (2011) Exploiting novel antibodies for the early detection of cardiac disease. PhD thesis, Dublin City University.
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Application Information

SDS-PAGE, ELISA and biacore analysis of anti-cTnI mAb, 20B3 (Fig.1-3)

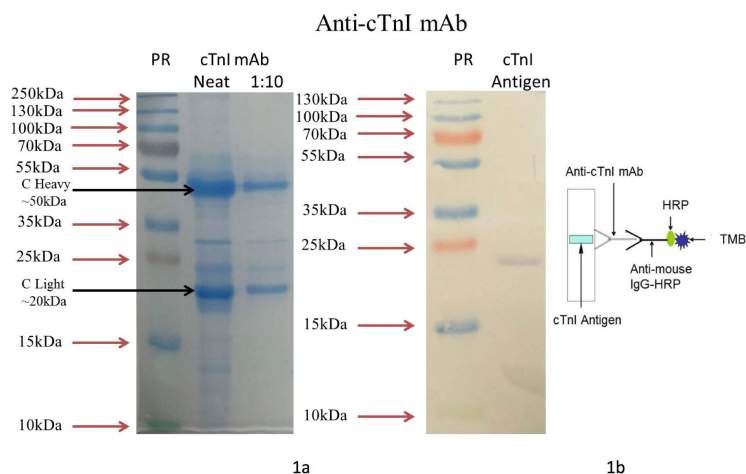


Fig. 1 SDS-PAGE and Western Blot analysis of purified anti-cTnI mAb

The Western blot shows the specific band on Western blotting (~23kDa) of the cTnI antigen probed with the anti-cTnI scFv. PR: Pre-stained Page Ruler; cTnI: cTnI Antigen. Figure 1b shows the schematic diagram of Western blotting analysis.

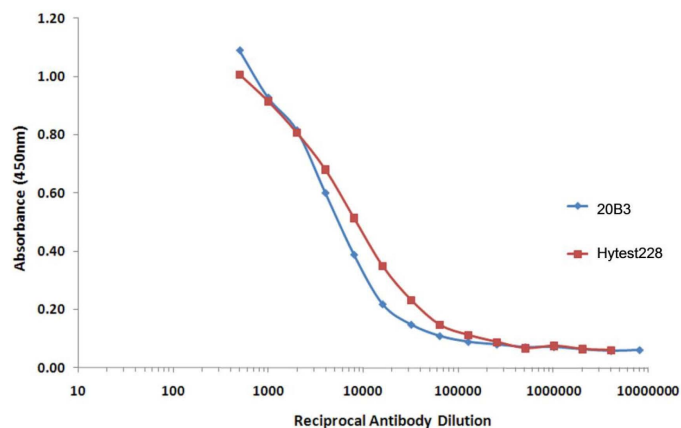


Fig. 2 Titrations of purified the 20B3 and commercial Hytest 228 anti-cTnI mAbs

Reciprocal antibody dilutions in 1 % (w/v) PBSTM titrated against cTnI-coated onto the surface of a microtitre plate. The purified mAb titred in a similar fashion to the commercial standard and indicated no adverse loss of activity due to the purification strategy.

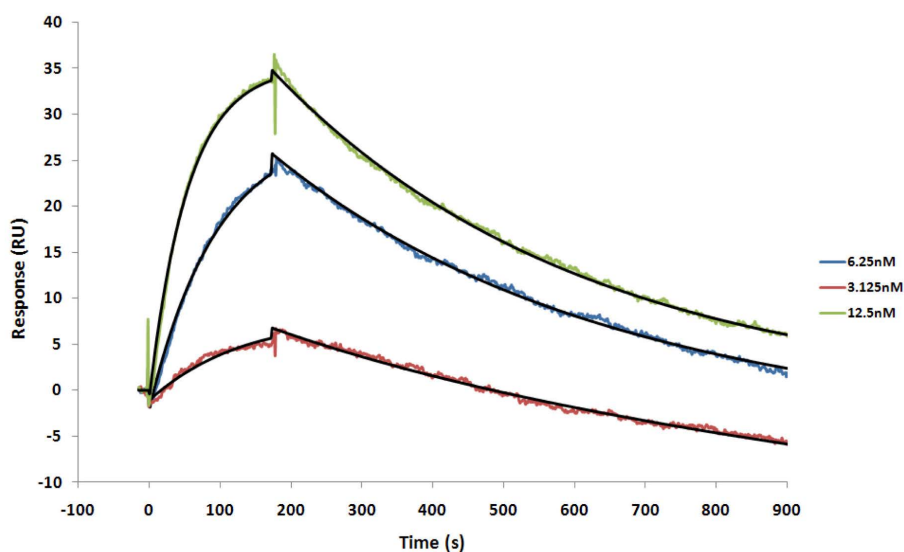


Fig. 3 Kinetic analysis of interactions between anti-cTnI mAb 20B3 and cTnI using the Biacore 3000 system

The coloured lines represent the response data of various quantities of cTnI. The black lines represent the local fit to the response data shown as coloured lines.

Contact Information

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