



Human IgG2 mAb to cardiac troponin complex, clone 5F8

Catalogue #	R1-126-100
Immunogen:	Recombinant human cardiac troponin complex
Immunogen Description:	Recombinant human cardiac troponin complex protein produced by CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line
Clonality:	Human monoclonal
Clone:	5F8
Class:	hIgG2
Reactivity:	human cardiac troponin I
Dissociation constant (K_D):	1.60×10^{-10} M (Troponin complex binding from solution) 1×10^{-12} M (Troponin complex binding from streptavidin surface)
Application:	ELISA, CLIA, WB
Purification:	MabSelect affinity chromatography following gel filtration
Buffer:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ (SPTN)
Related Products:	Monoclonal antibodies to human cardiac troponin I. For more information visit www.icosagen.com/antibodies
Shipping:	This product is shipped in non-frozen liquid form on blue ice.
Storage:	Stored refrigerated at +2...+8°C for short term. Store at -20 °C to -70 °C long term. Avoid multiple freeze-thaw cycles.
Background:	Troponin I is a part of the troponin complex. It binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it, myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes

conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle (Wikipedia)

Limitations: This product is for research use only.

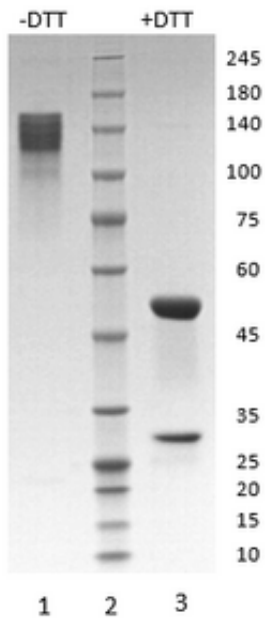
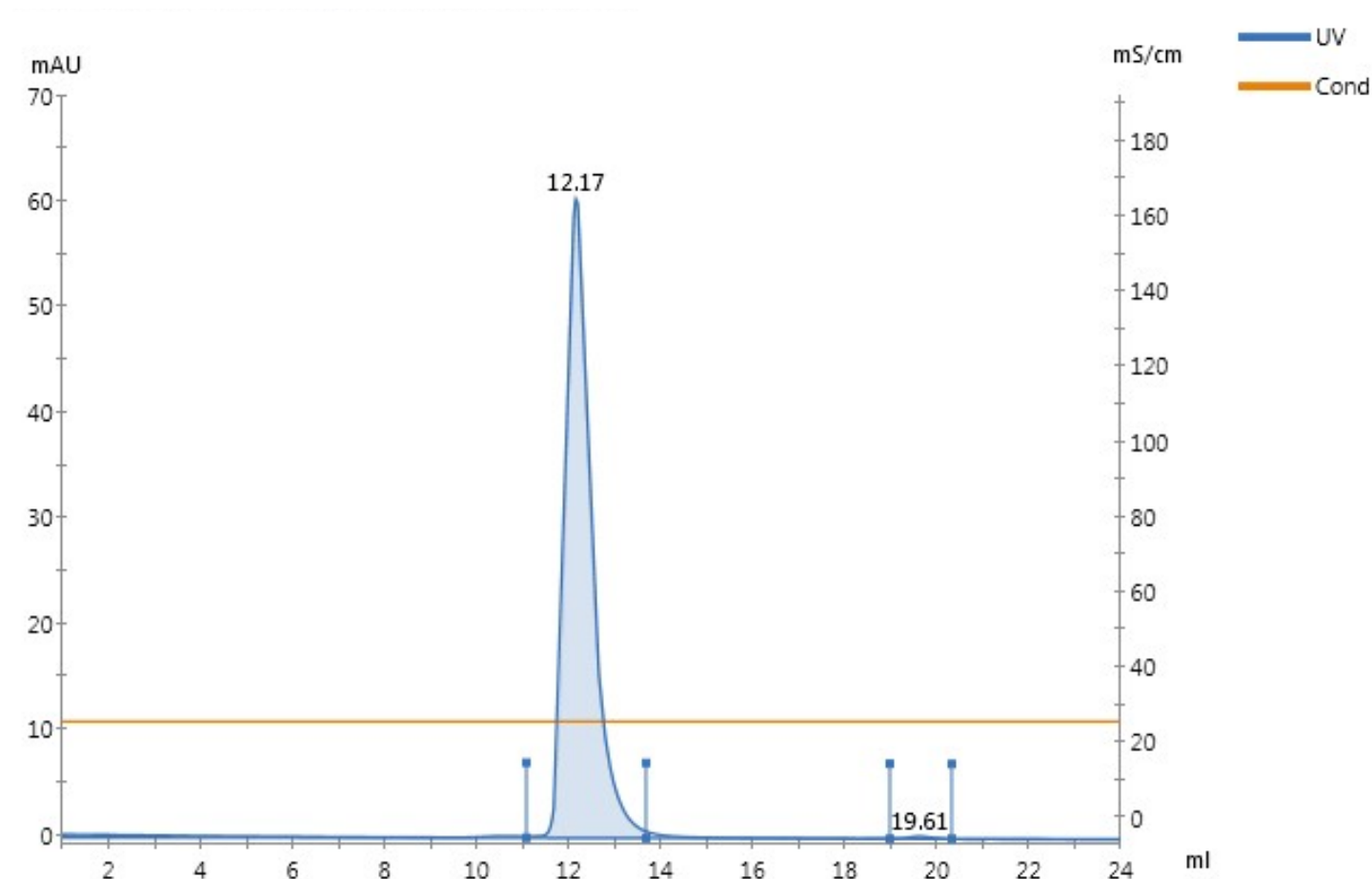


Figure 1. Coomassie stained SDS-PAGE analysis of monoclonal antibody to cardiac troponin I, clone 5F8. 4-15% gradient gel is used for analysis. Lane 1. Monoclonal antibody to cardiac troponin I, 5F8 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to cardiac troponin I, 5F8 (+DTT).



Peak Table - UV

Peak	Retention ml	Area ml*mAU	Area %	Ext coeff.  mg ml ⁻¹ cm ⁻¹	
Peak A	12.166	38.91	99.68		
Peak B	19.609	0.1264	0.32		

Figure 2. Analytical SEC of final product

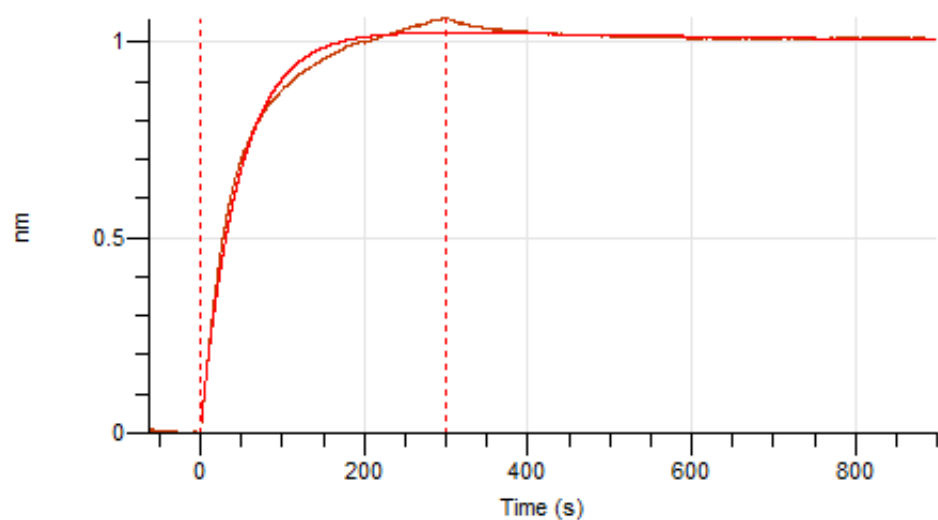


Figure 3. Octet RED96e analysis, antibody was loaded on sensor for capture of human cardiac troponin complex.

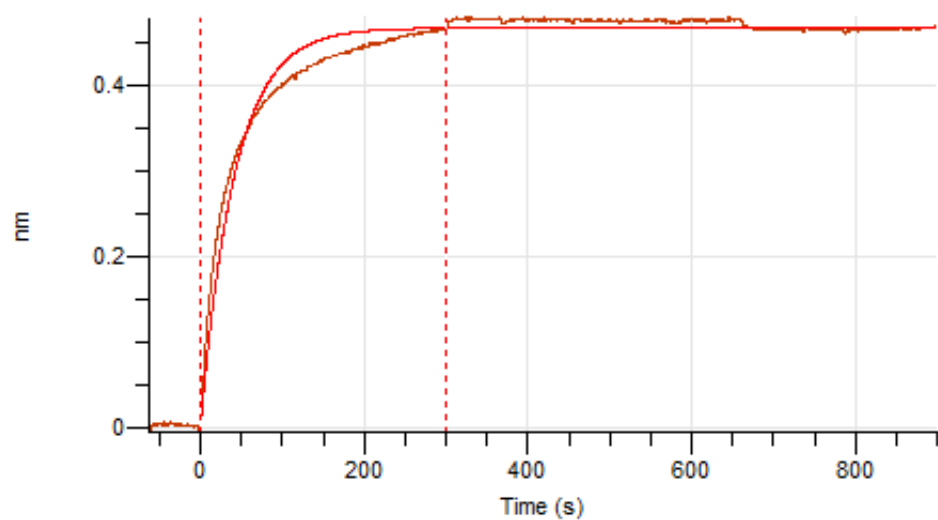


Figure 4. Octet RED96e analysis, biotinylated human cardiac troponin complex was loaded on sensor for capture of the antibody.