Rabbit IgG-kappa antibody to SARS-CoV-2 S1 RBD (clone 79C3)

Catalogue #	R1-173-100
Immunogen:	RBD protein SARS-CoV-2
Immunogen Description:	Recombinant SARS-CoV-2 RBD protein produced by CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line
Clonality:	Rabbit monoclonal
Clone:	79C3
Class:	rIgG1
Reactivity:	SARS-CoV-2 Spike RBD Neutralizing properties: blocks S1 and ACE2 binding in Octet system.
Dissociation constant (K_D):	<1.0 x 10^{-12} M (measured against SARS-CoV-2 Trimeric Spike protein) 6.9 x 10^{-9} M (measured against SARS-CoV-2 Spike S1 protein)
Application:	ELISA
ELISA:	0,01-0,02 ng/ml
Purification:	Protein A affinity chromatography following gel filtration
Buffer:	PBS pH 7.4
Shipping:	Shipped at ambient temperature.
Storage:	Store at +4 °C. Avoid multiple freeze-thaw cycles.

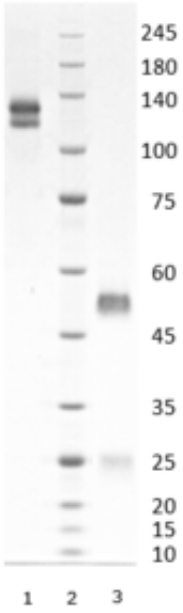


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 79C3. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 79C3 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 79C3 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	17.675	33706.07	100.00

Chromatogram

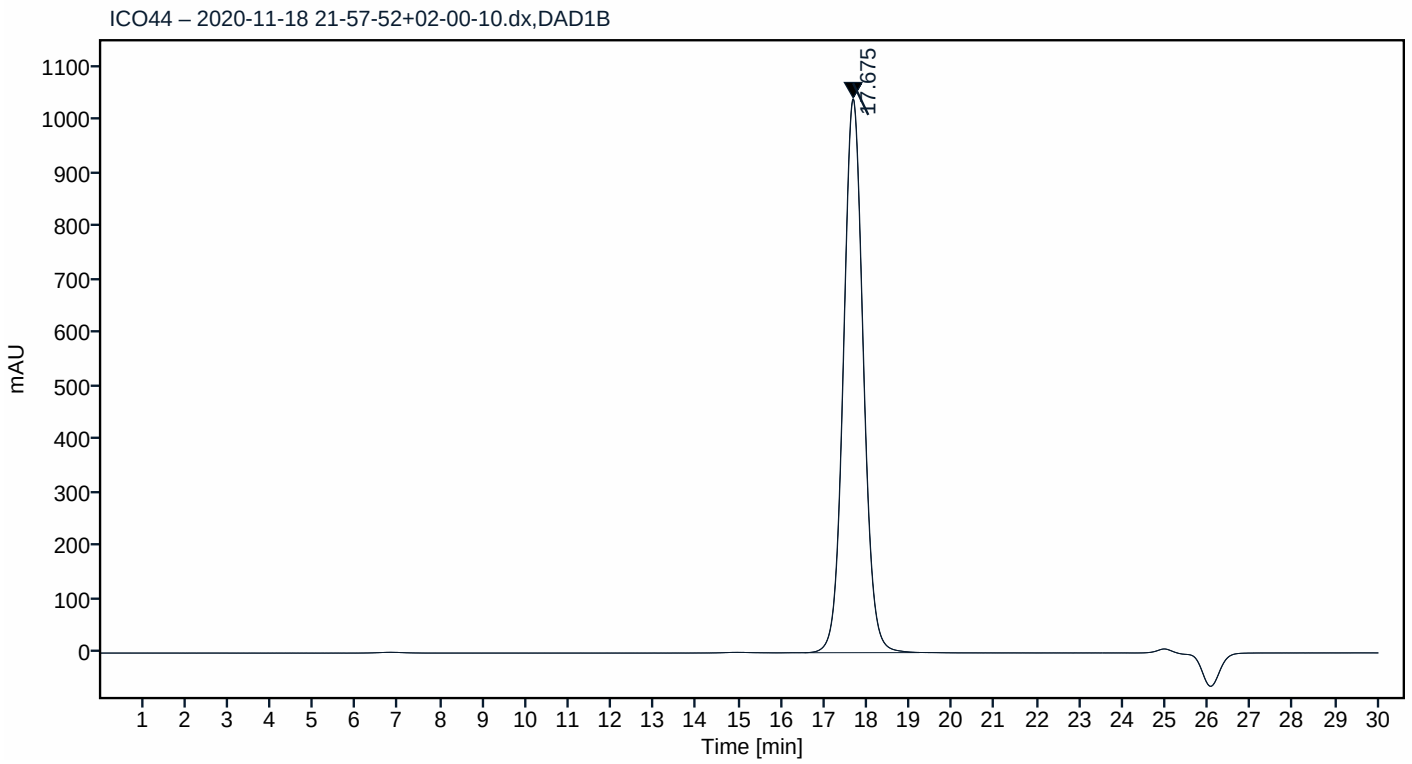


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	17.677	32899.73	100.00

Chromatogram

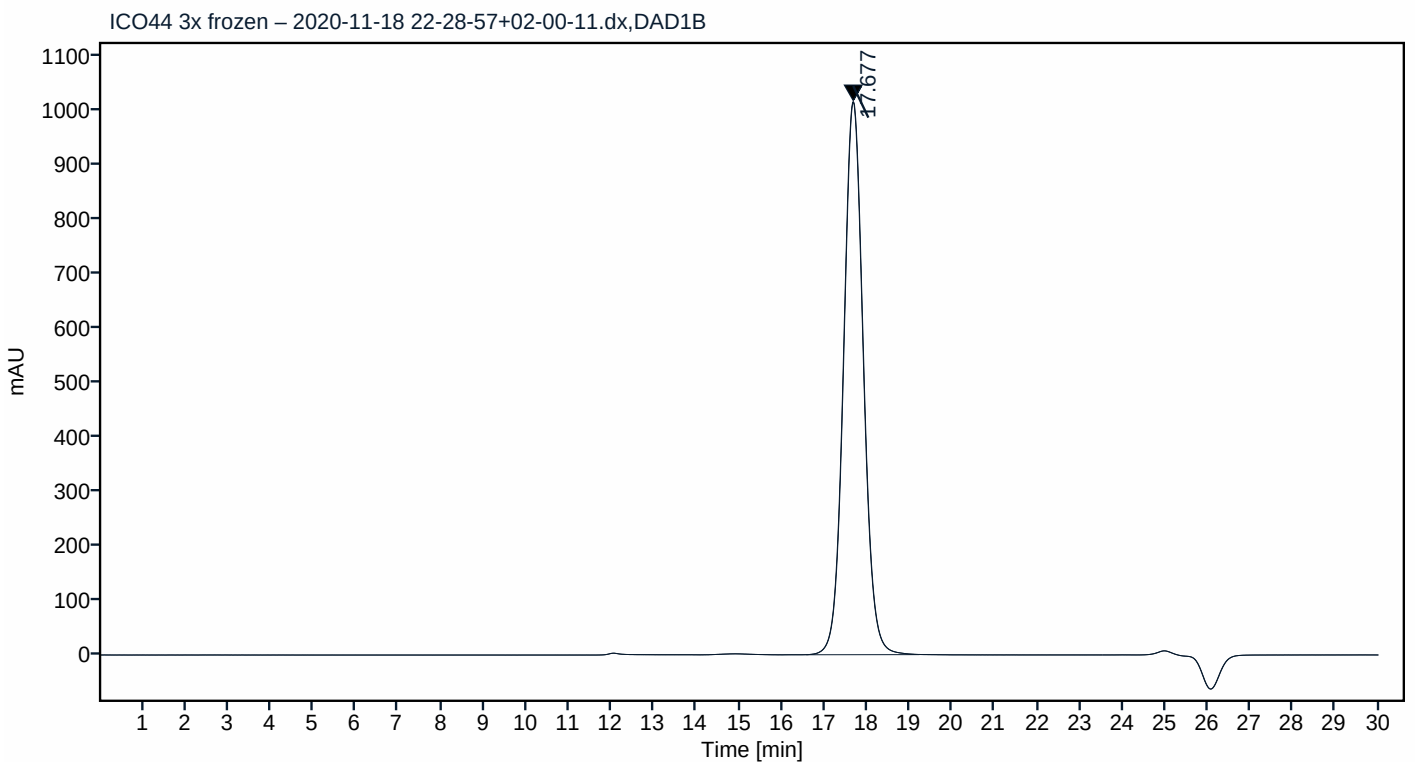


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

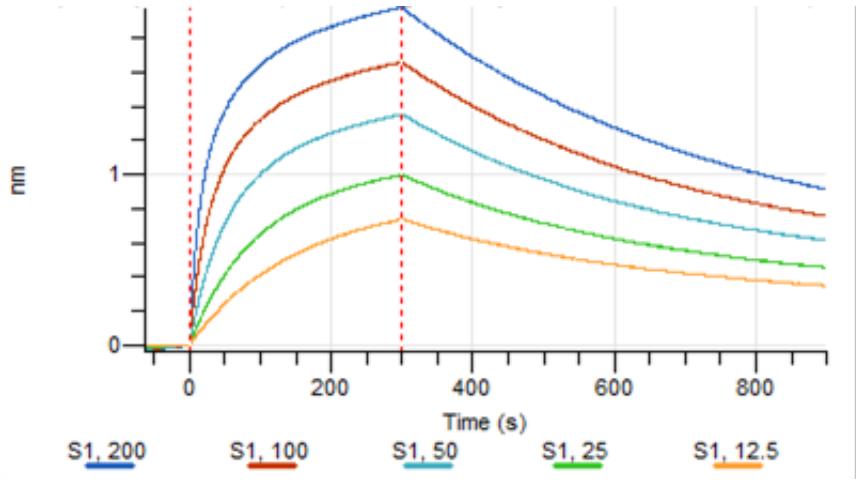


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations (200, 100, 50, 25 and 12.5 nM).

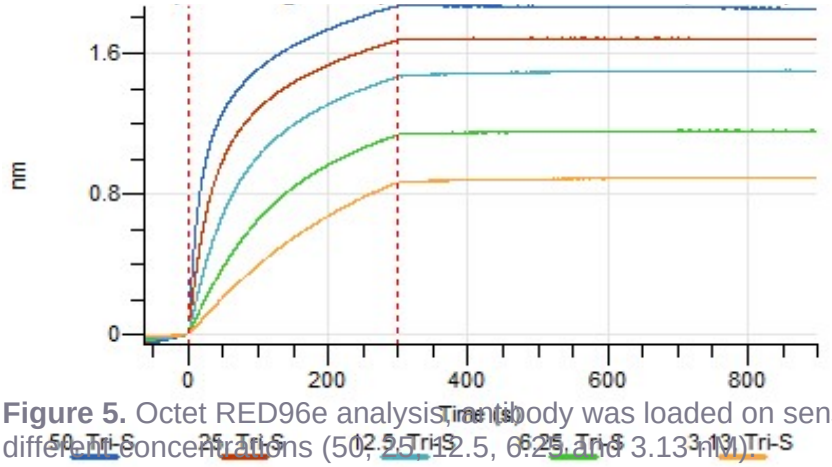


Figure 5. Octet RED96e analysis, antibody was loaded on sensor for capture of Trimeric Spike protein in different concentrations (50, 25, 12.5, 6.25 and 3.13 nM).