



Rabbit IgG-kappa antibody to SARS-CoV-2 S1 RBD (clone 71D2)

Catalogue #	R1-171-100
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:	71D2
Class:	rIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K _D):	1.61 x 10 ⁻¹⁰ M (measured against SARS-CoV-2 Trimeric Spike protein) 1.58 x 10 ⁻⁹ M (measured against SARS-CoV-2 Spike S1 protein)
Application:	ELISA
ELISA:	0,02-0,04 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.

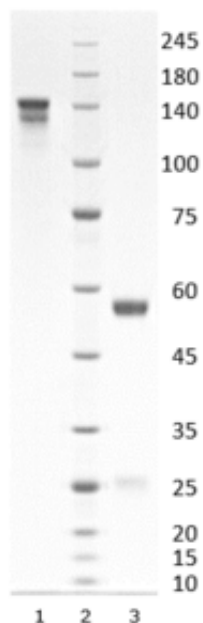


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 71D2. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 71D2 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 71D2 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	17.054	33084.64	100.00

Chromatogram

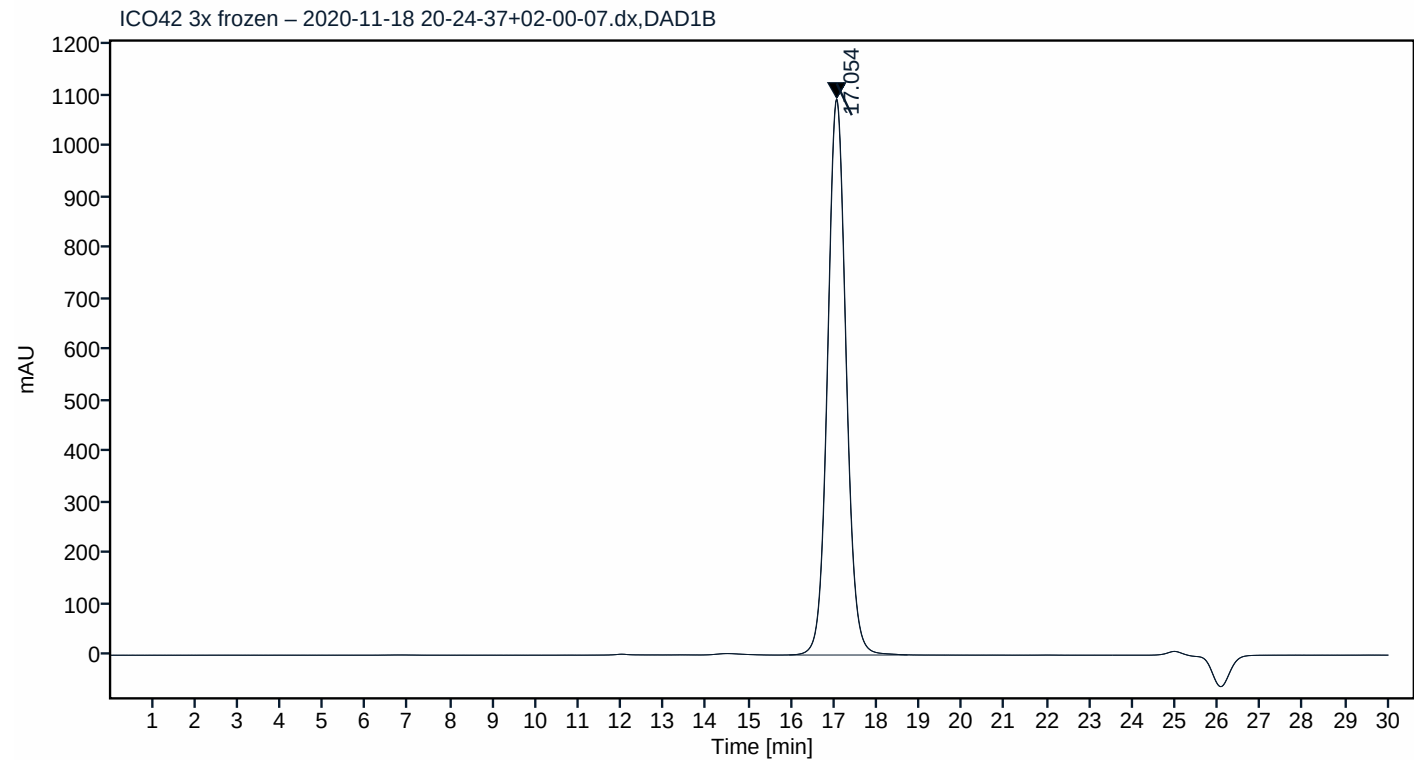


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	17.054	31815.51	100.00

Chromatogram

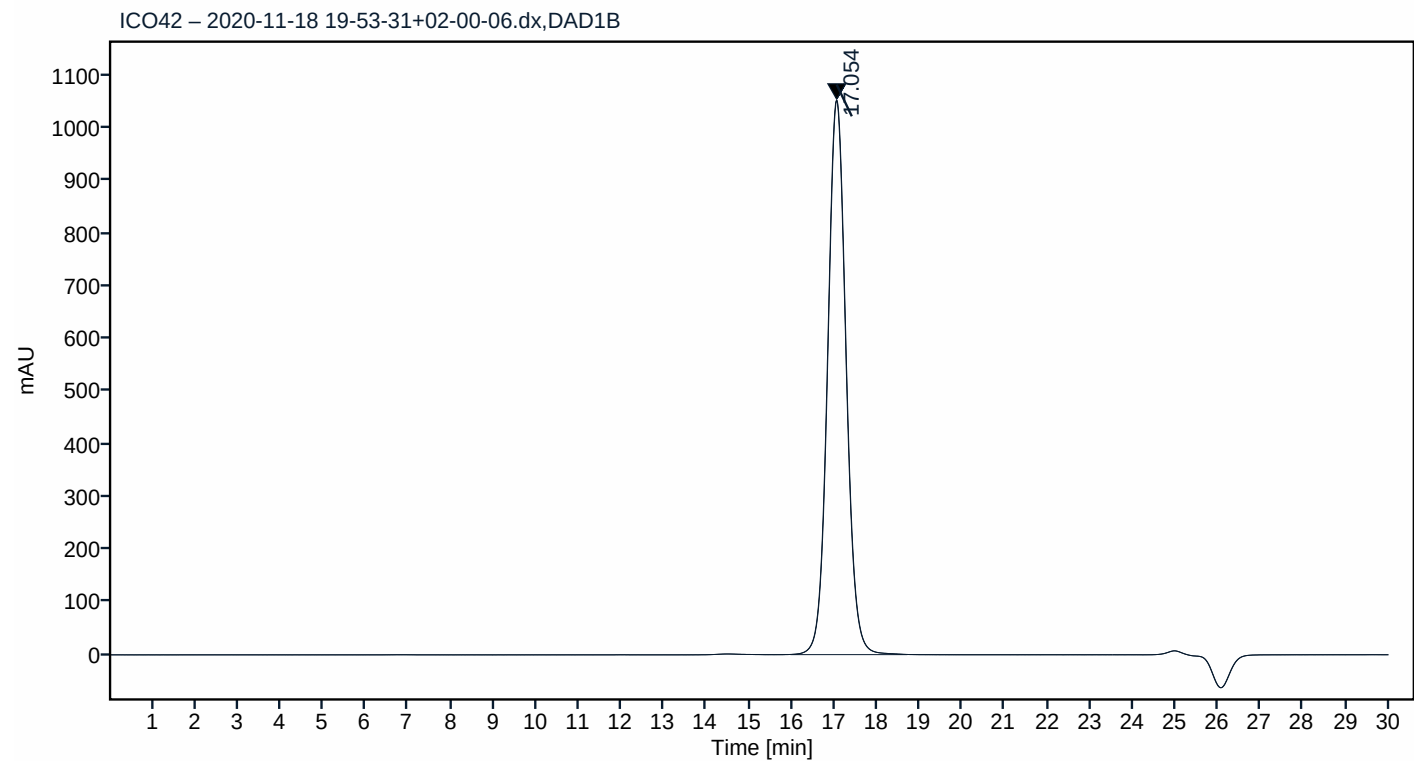


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

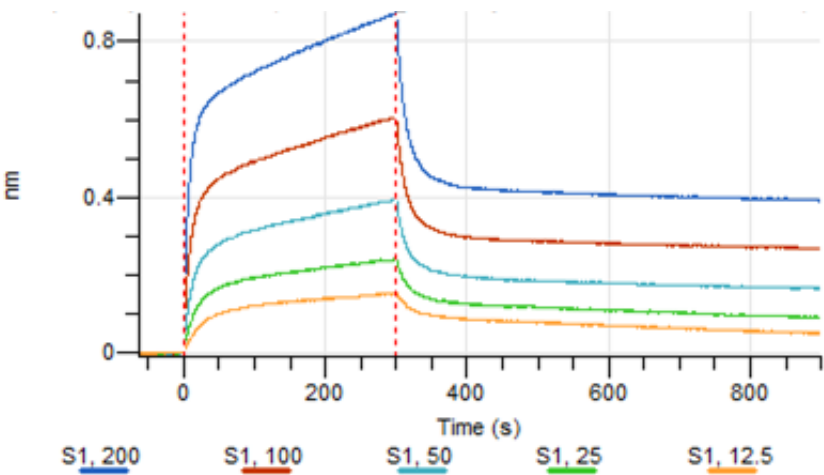


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations (200, 100, 50, 25 and 12.5 nM).

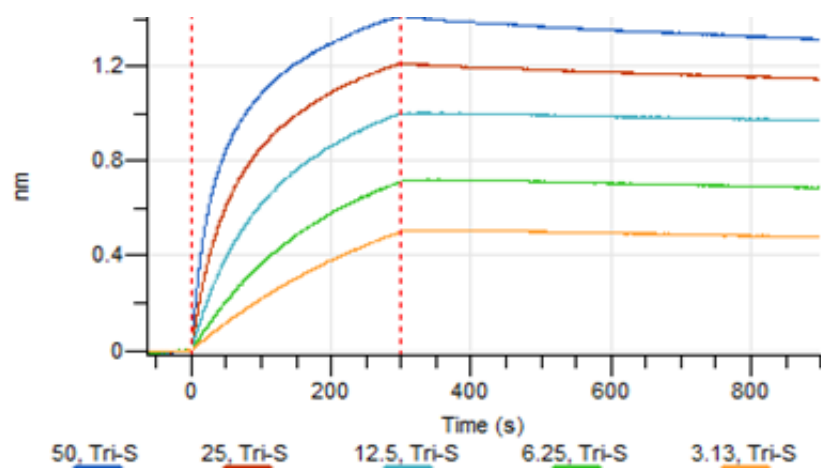


Figure 5. Octet RED96e analysis, antibody was loaded on sensor for capture of Trimeric Spike protein in different concentrations (50, 25, 12.5, 6.25 and 3.13 nM).