



Human IgG1-lambda antibody to SARS-CoV-2 Spike S1 (clone 49F9)

Catalogue #	R1-169-100
Immunogen:	SARS-CoV-2 virus
Immunogen Description:	SARS-CoV-2 virus (PBMCs isolated from patients recovered from SARS-CoV-2 infection, antibodies discovered by using HybriFree Technology).
Clonality:	Human monoclonal
Clone:	49F9
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K_D):	1.15×10^{-11} M (measured against SARS-CoV-2 Trimeric Spike protein) 4.82×10^{-8} 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.

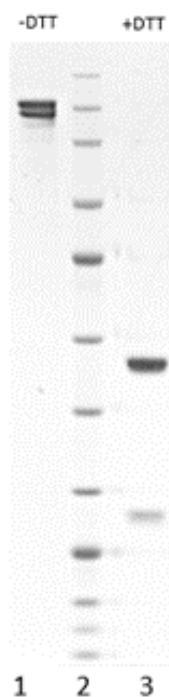


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 49F9. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 49F9 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 49F9 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	14.681	294.85	0.90
2	17.156	32360.35	99.10

Chromatogram

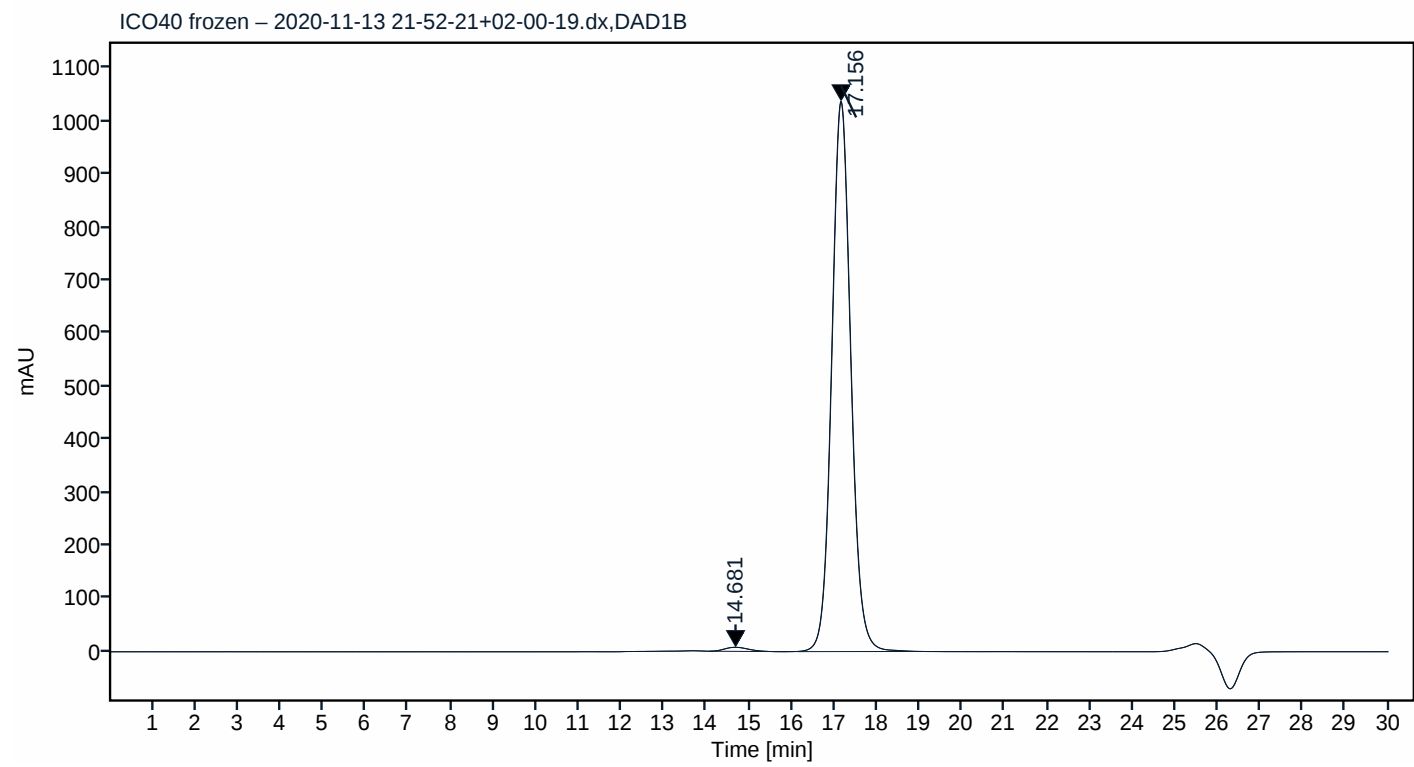


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	17.167	25813.15	100.00

Chromatogram

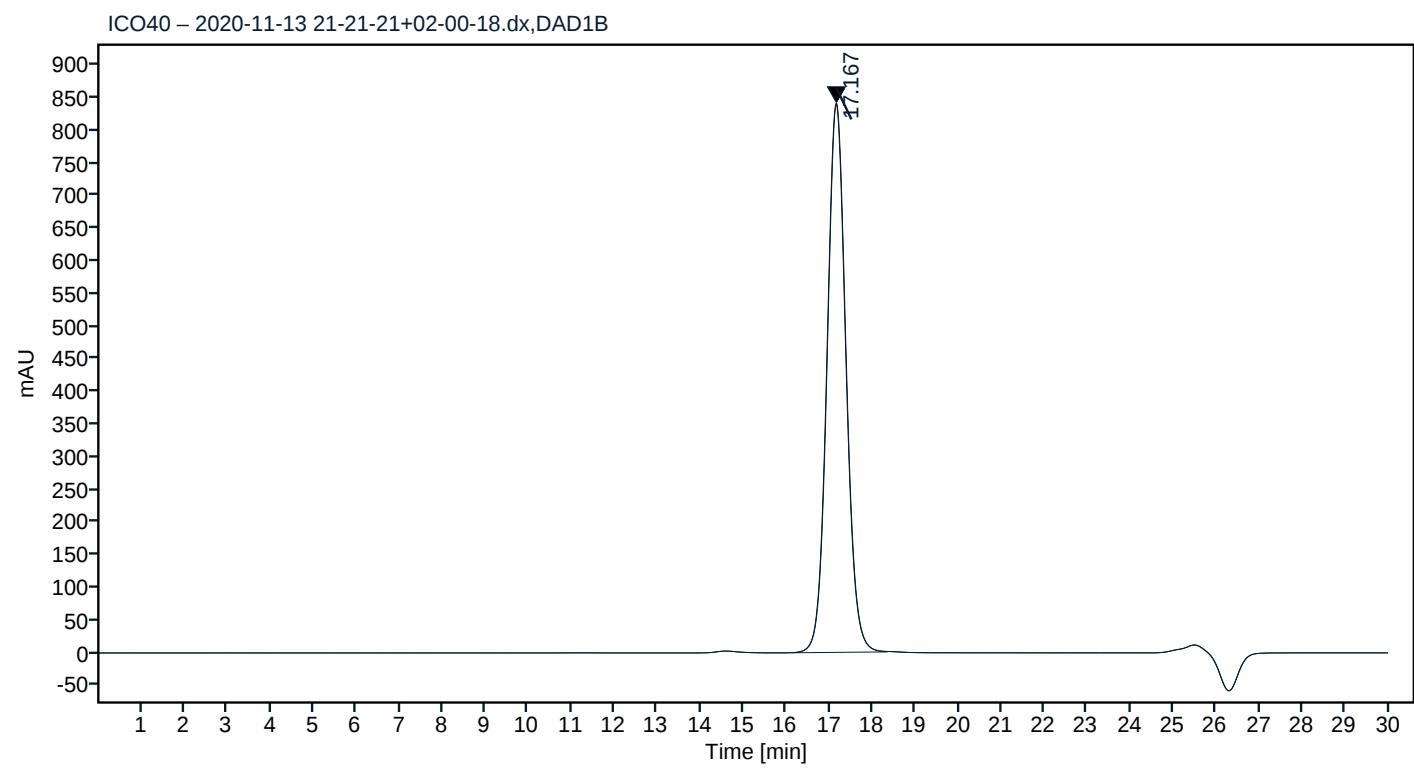


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

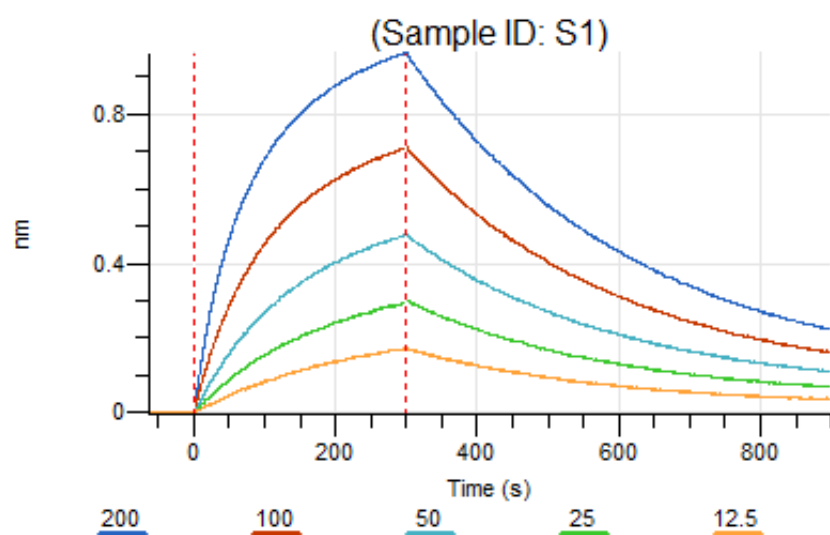


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations (200, 100, 50, 25 and 12.5 nM).

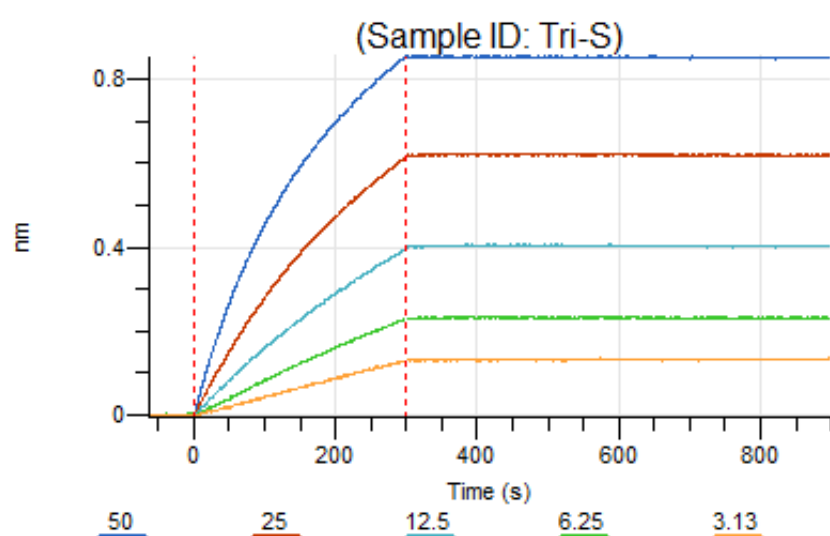


Figure 5. Octet RED96e analysis, antibody was loaded on sensor for capture of Trimeric Spike protein in different concentrations (50, 25, 12.5, 6.25 and 3.13 nM).