



Human IgG1 antibody to SARS CoV-2 Spike protein (clone 58F8)

Catalogue #	R1-170-100
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:	58F8
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K_D):	$< 1.0 \times 10^{-12}$ M (measured against SARS-CoV-2 Trimeric Spike protein) 1.4×10^{-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.

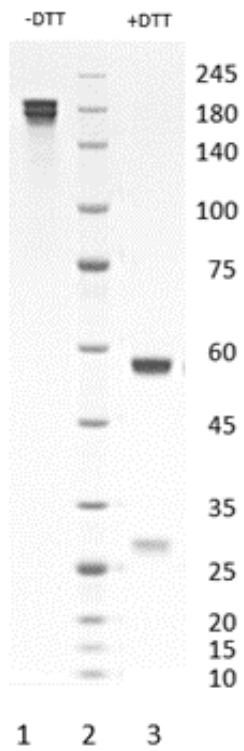


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 58F8. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 58F8 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 58F8 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	14.617	417.91	1.33
2	17.045	31105.30	98.67

Chromatogram

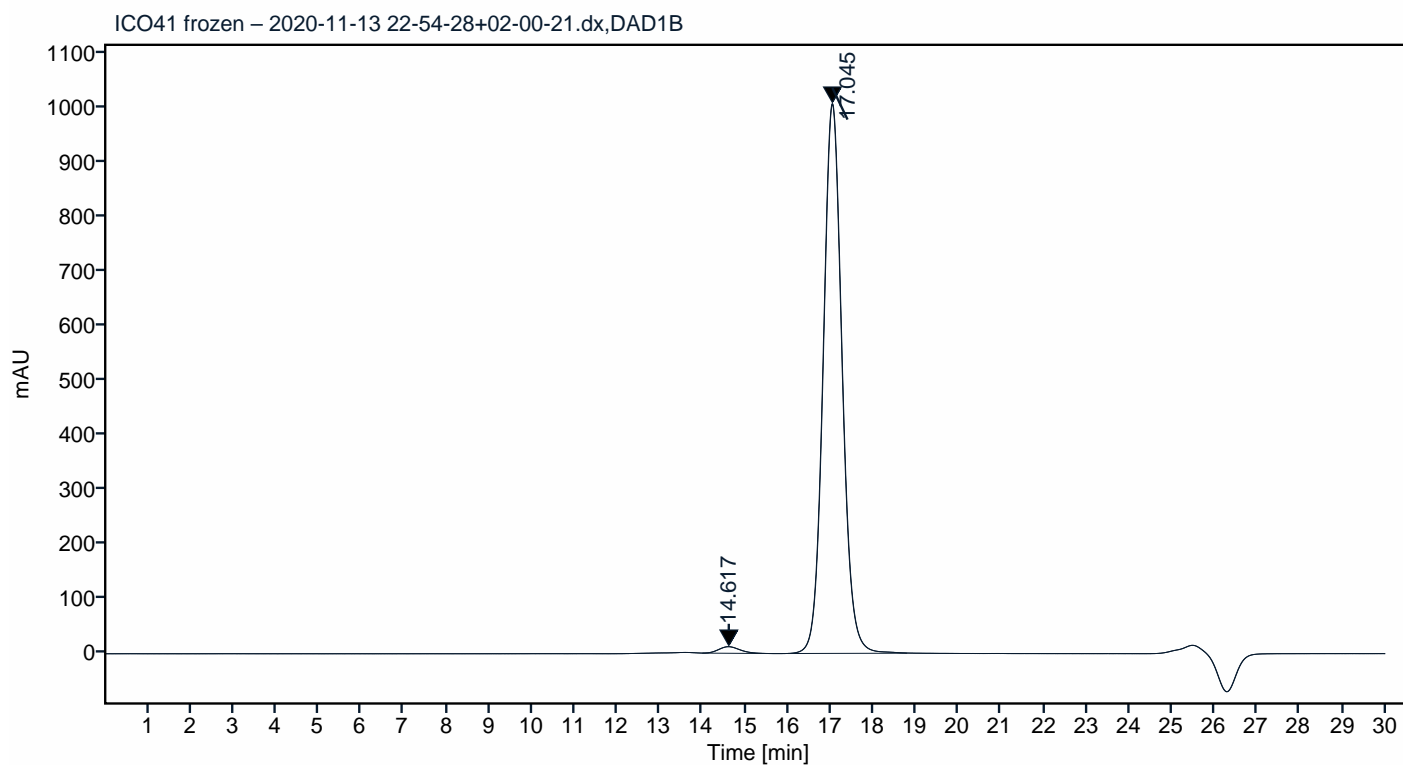


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	14.605	177.83	0.65
2	17.056	27033.48	99.35

Chromatogram

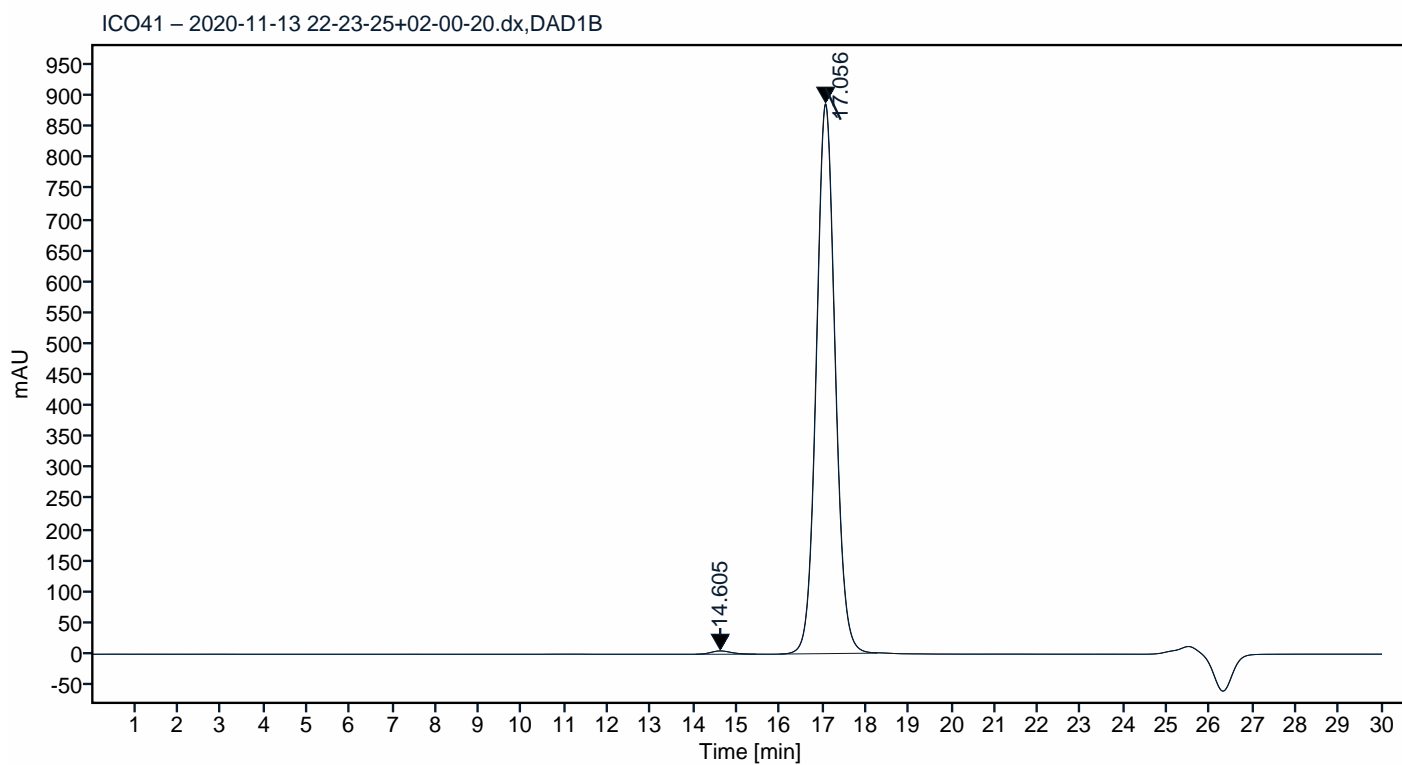


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

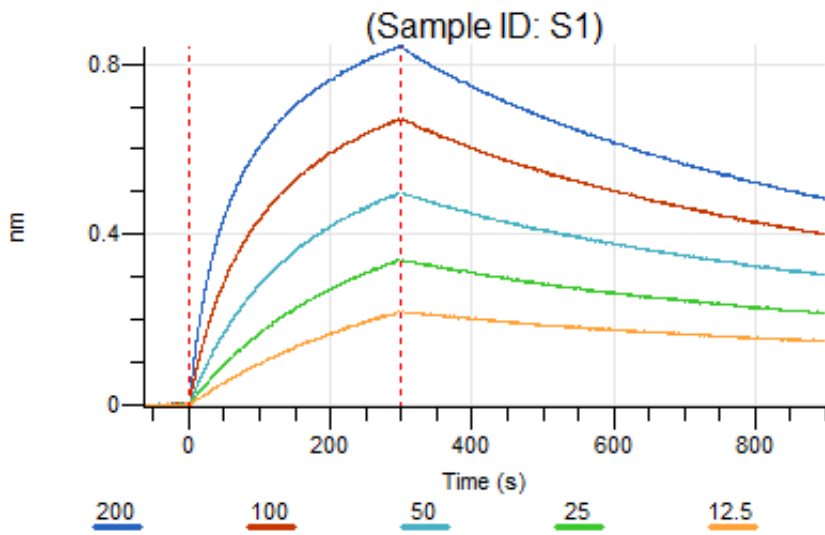


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations (200, 100, 50, 25 and 12.5 nM).

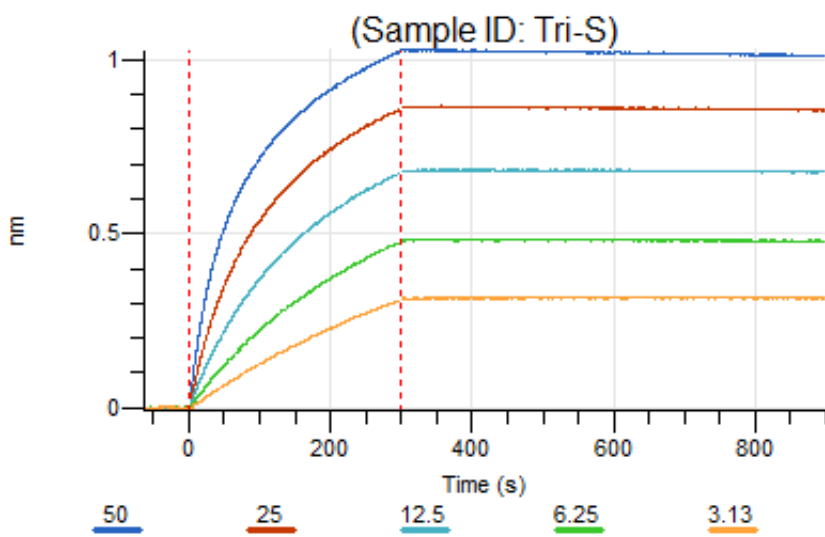


Figure 5. Octet RED96e analysis, antibody was loaded on sensor for capture of Trimeric Spike protein in different concentrations (50, 25, 12.5, 6.25 and 3.13 nM).