



Human IgG1-kappa antibody to SARS CoV-2 S1 RBD (clone 6G7)

Catalogue #	R1-151-100
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:	6G7
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD Neutralizing properties: blocks S1 and ACE2 binding in Octet system; IC50 5000 ng/ml measured in live virus neutralization assay
Dissociation constant (K _D):	< 1.0 x 10 ⁻¹² M (measured against SARS-CoV-2 Trimeric Spike protein) 1.66 x 10 ⁻⁸ M (measured against SARS-CoV-2 Spike S1 protein)
Application:	ELISA
ELISA:	0,08-0,16 ng/ml
Purification:	Protein A affinity chromatography following desalting
Buffer:	PBS pH 7.4
Shipping:	Shipped at ambient temperature.
Storage:	Store at -20 °C to -70 °C long term. Avoid multiple freeze-thaw cycles.

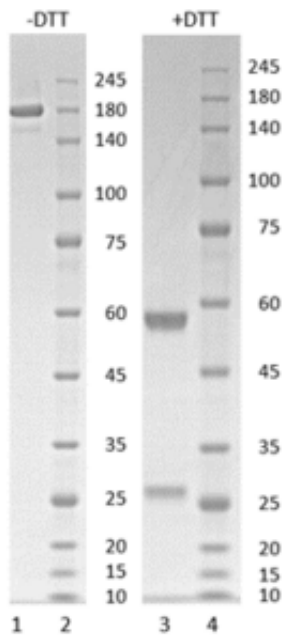


Figure 1. Coomassie-stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 6G7. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 6G7 (-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 6G7 (+DTT). Lane 4. Size marker.

Peak Table

Peak #	RT (min)	Area	Area %
1	7.462	5894.29	100.00

Chromatogram

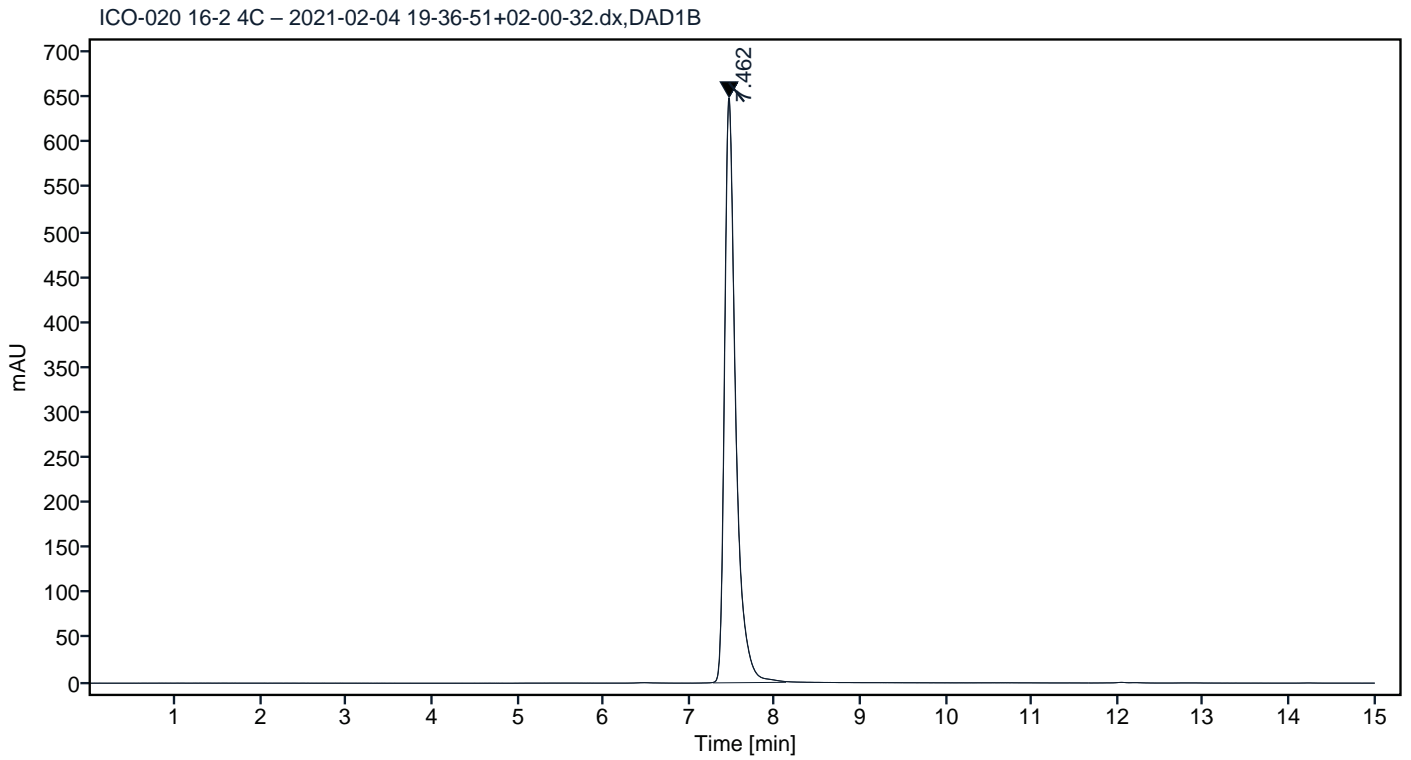


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	7.461	5222.57	100.00

Chromatogram

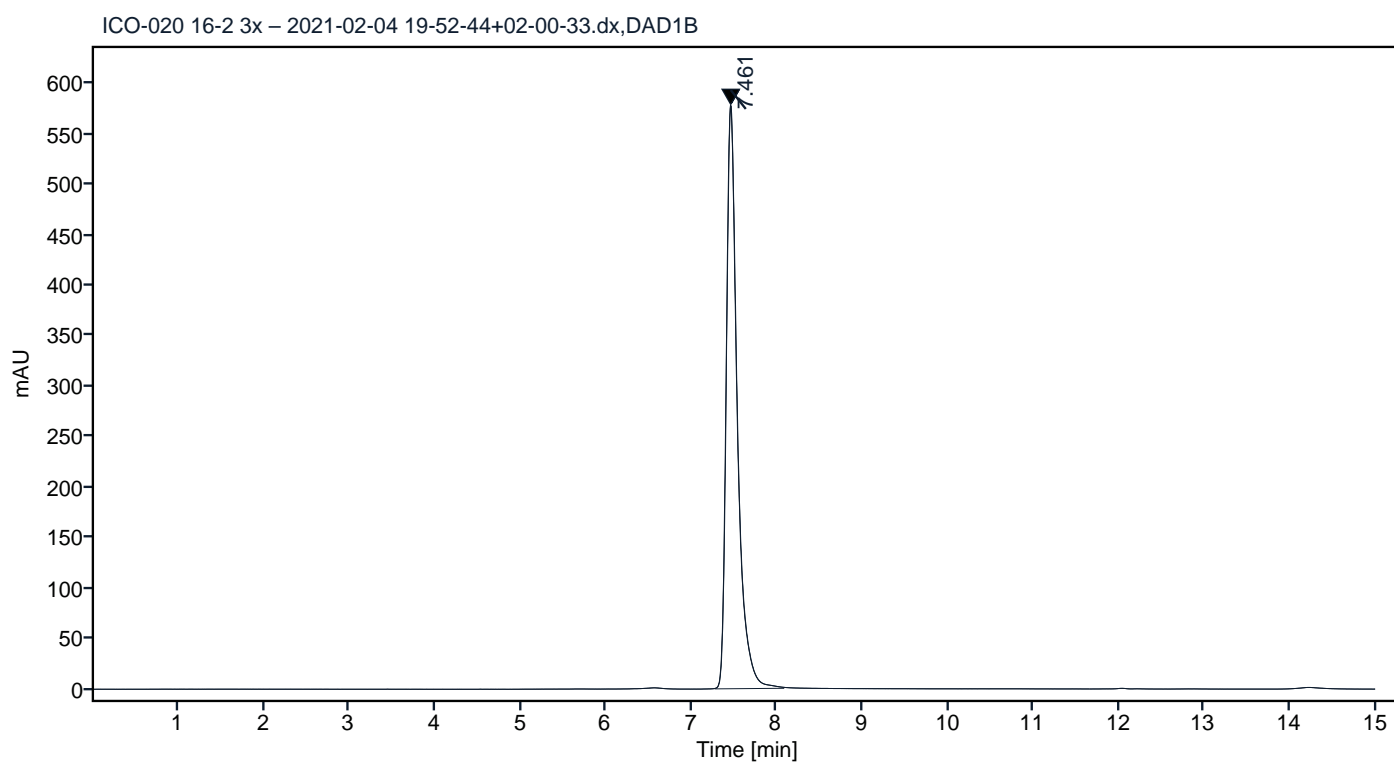


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

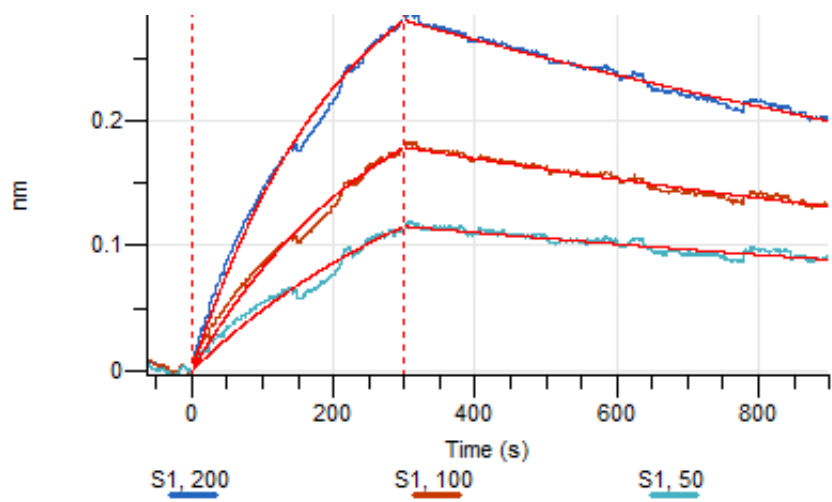


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations: 200 nM, 100 nM and 50 nM.