



Human IgG1 antibody to SARS CoV-2 Spike RBD protein (clone 64E6)

Catalogue #	R1-176-100
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).
Source:	Human
Clonality:	Human monoclonal
Clone:	64E6
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K_D):	2E-10 (measured against SARS-CoV-2 Trimeric Spike protein) 3.39E-09 (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.
Background:	

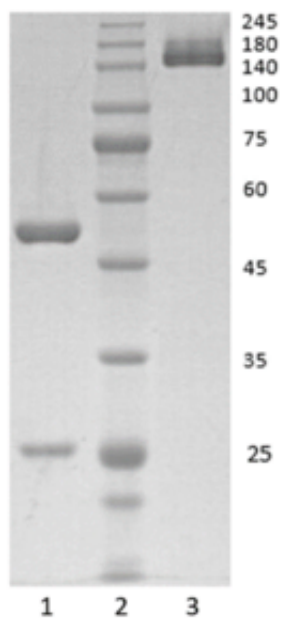


Figure 1. Coomassie-stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 64E6. 10% gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 64E6 (+DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 64E6 (-DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	7.076	4306.40	100.00

Chromatogram

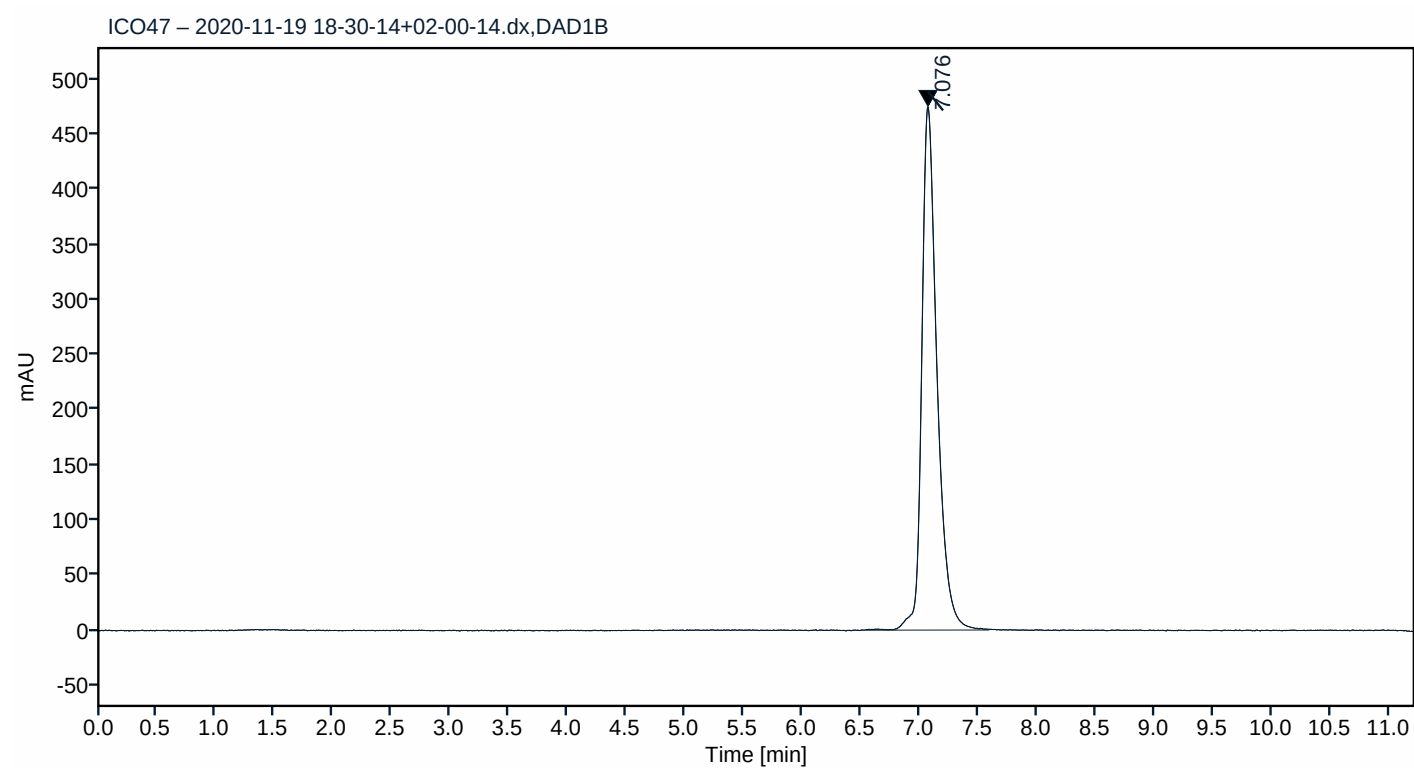


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	7.075	3907.27	100.00

Chromatogram

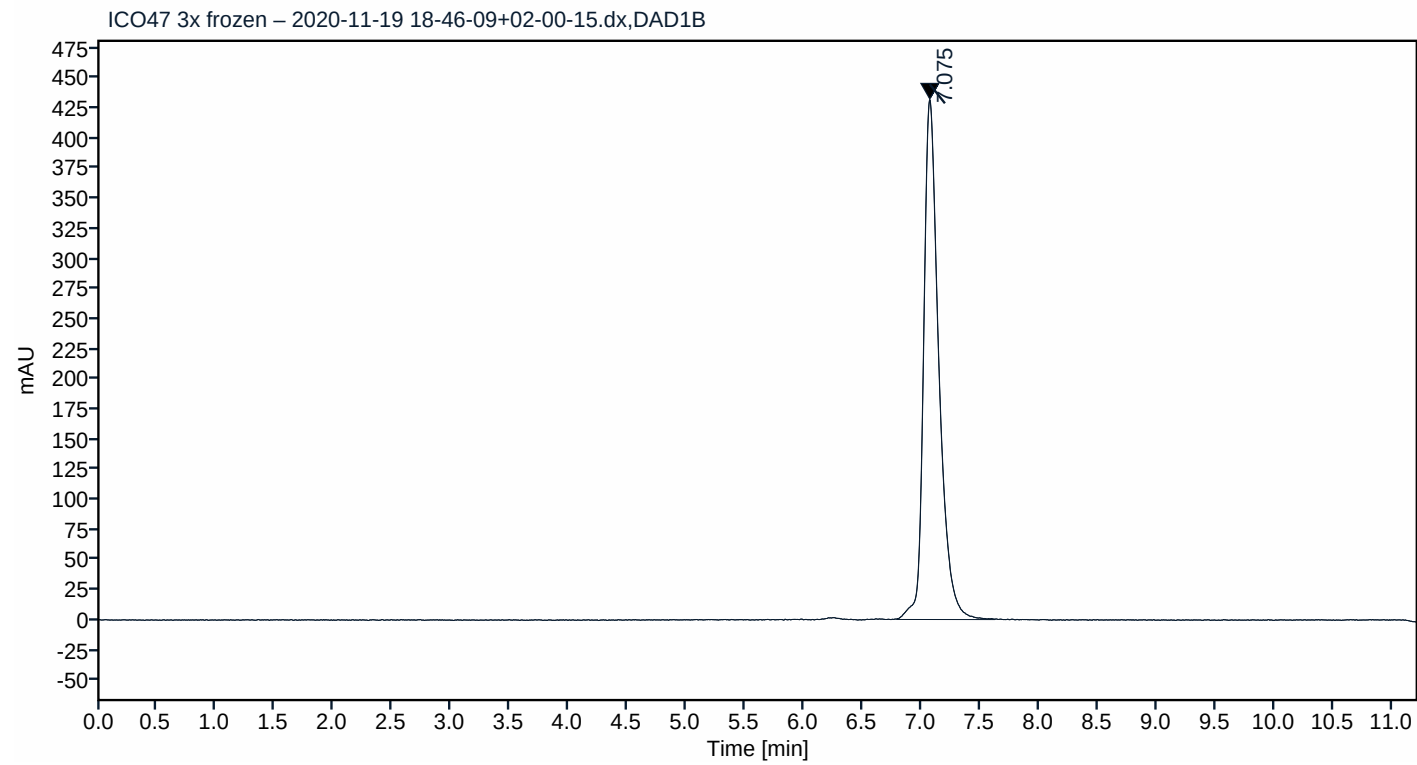


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

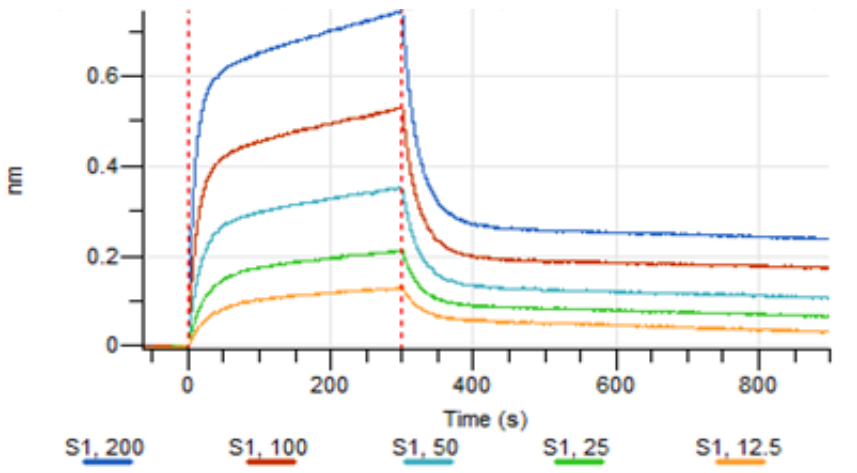


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein in different concentrations: 200 nM, 100 nM, 50 nM, 25 nM and 12.5 nM.