Human IgG1-lambda antibody to SARS CoV-2 NP (clone 43E5)

Catalogue #	R1-167-100
Immunogen:	Nucleocapsid protein SARS-CoV-2
Immunogen Description:	Recombinant SARS-CoV-2 Nucleocapsid protein produced by CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line
Clonality:	Human monoclonal
Clone:	43E5
Class:	hIgG1
Reactivity:	SARS-CoV-2 Nucleocapsid protein
Dissociation constant (K_D):	2.23 x 10^{-9} M
Application:	ELISA
Kd:	2.23 x 10-9 M
ELISA:	indirect 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.

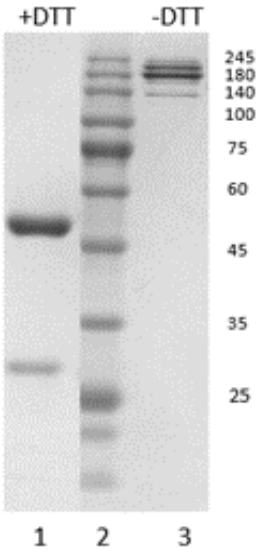


Figure 1. Coomassie-stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 43E5. 10% gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 43E5 (+DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 43E5 (-DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	17.594	34364.99	100.00

Chromatogram

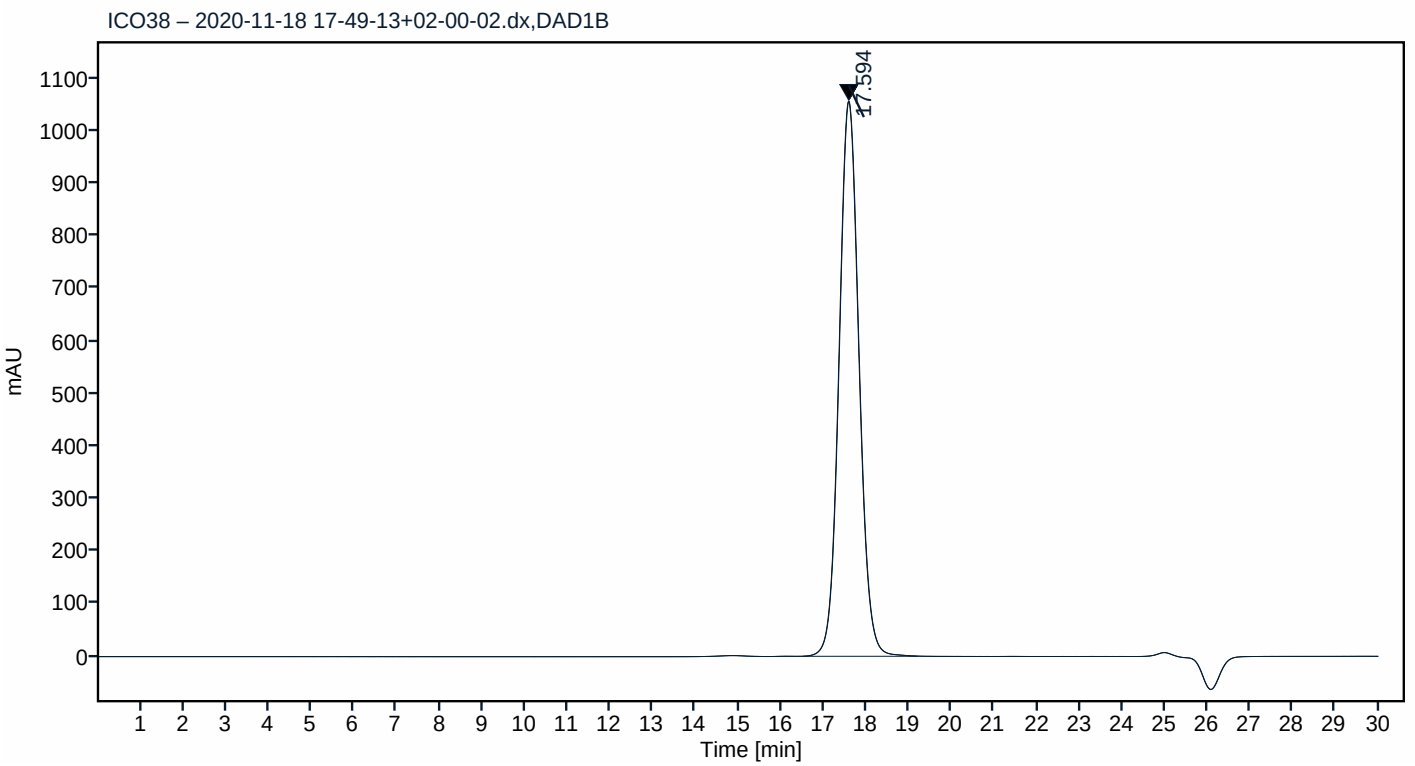


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	17.591	32266.31	100.00

Chromatogram

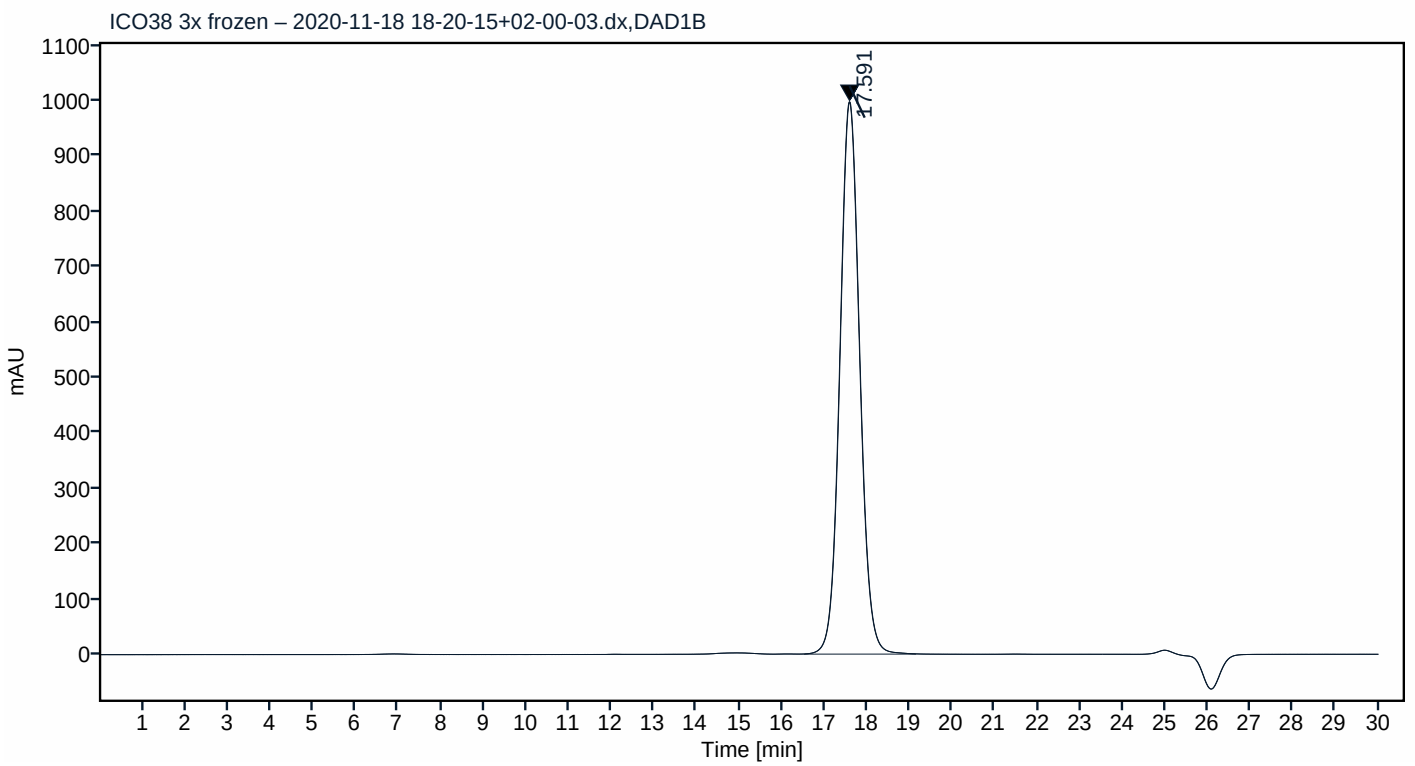


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

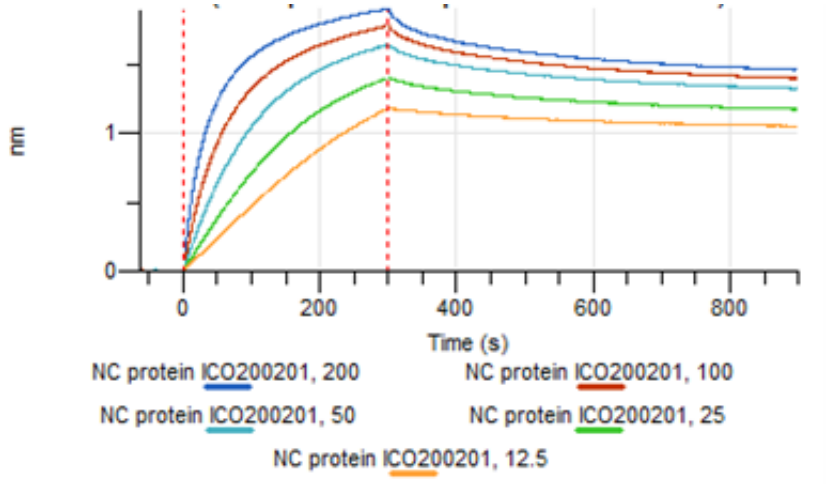


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Nucleocapsid protein in different concentrations (200, 100, 50 and 25 nM).