



Human IgG1-kappa antibody to SARS CoV-2 NP (clone 80E7)

Catalogue #	R1-178-100
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:	80E7
Class:	hIgG1
Reactivity:	SARS-CoV-2 Nucleocapsid protein
Dissociation constant (K_D):	$< 1.0 \times 10^{-12}$ M
Application:	ELISA
Kd:	$<1.0 \times 10^{-12}$ M
ELISA:	indirect ELISA 0,002-0,005 ng/ml
Purification:	Protein A affinity chromatography following desalting
Buffer:	PBS pH 7.4
Shipping:	Shipped at ambient temperature.
Storage:	Store at +4 °C. Avoid multiple freeze-thaw cycles.

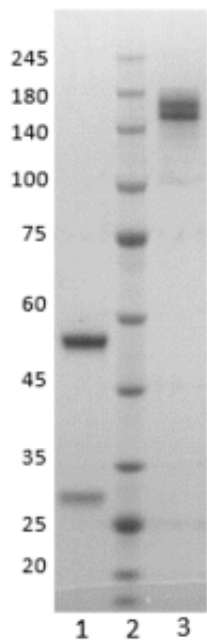


Figure 1. Simply Blue Safe Stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 80E7. 4-15% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 80E7 (+DTT). Line 2. Size marker. Line 3. Monoclonal antibody to SARS-CoV-2 Nucleocapsid protein, clone 80E7 (-DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	7.291	4867.42	100.00

Chromatogram

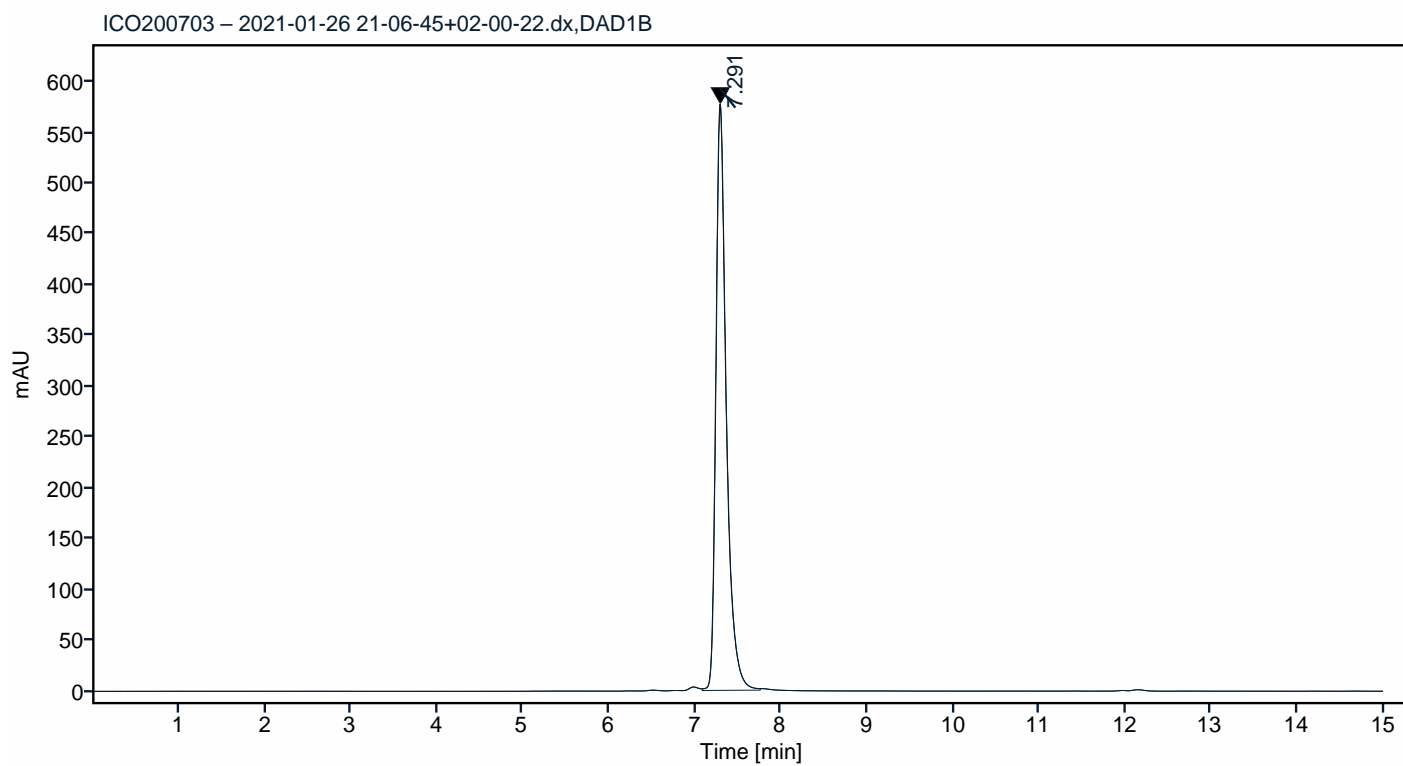


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	7.293	3748.52	100.00

Chromatogram

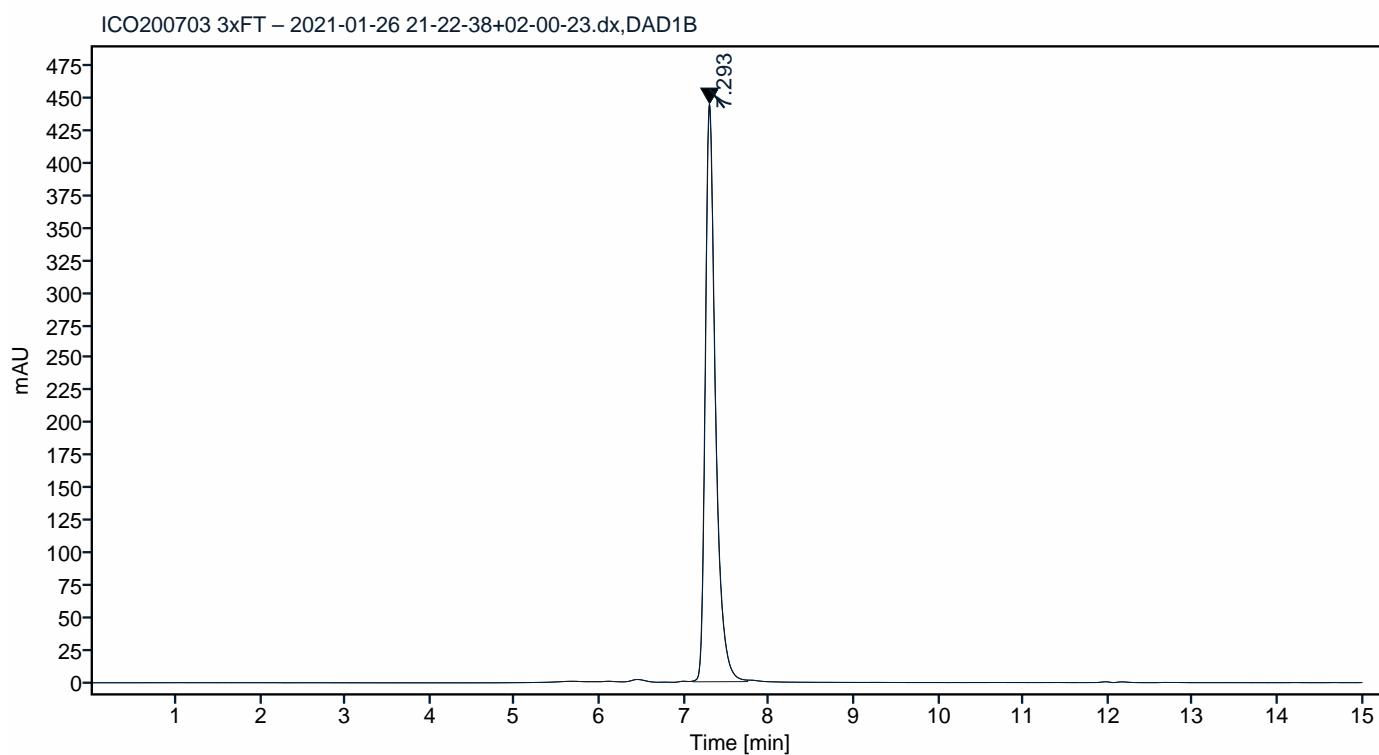


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

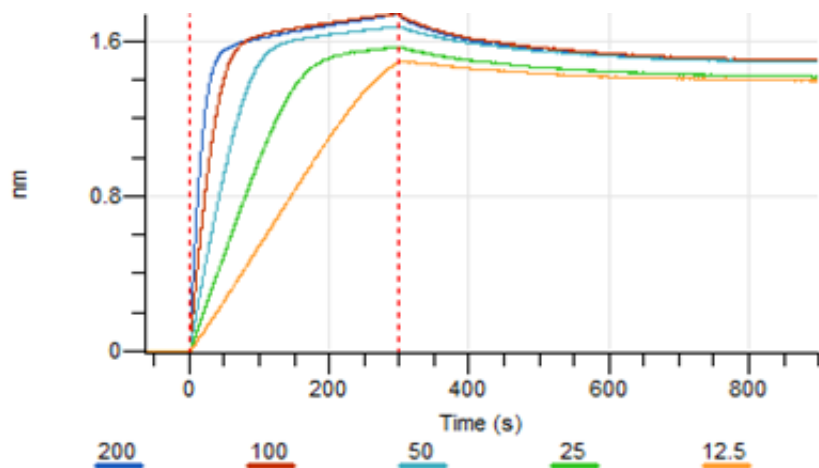


Figure 3. Octet RED96e analysis, antibody was loaded on sensor for capture of different concentrations of Nucleocapsid protein (200, 100, 50, 25 and 12.5 nM).