

Human IgG1-kappa antibody to SARS CoV-2 S1 RBD (clone 30C5)

Catalogue #	R1-161-100
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:	30C5
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K_D):	2.63 x 10 ⁻¹⁰ M (measured against SARS-CoV-2 Trimeric Spike protein) 8.6 x 10 ⁻⁸ M (measured against SARS-CoV-2 Spike S1 protein)
Application:	ELISA
ELISA:	indirect 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 +4 °C. Avoid multiple freeze-thaw cycles.

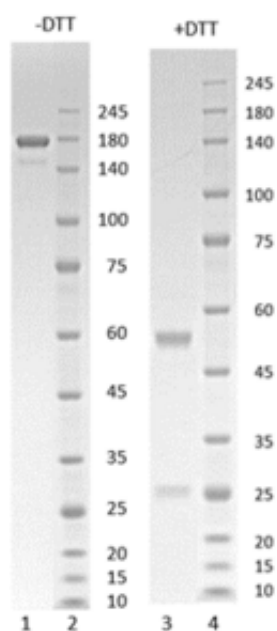


Figure 1. Coomassie-stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 30C5. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 30C5(-DTT). Lane 2. Size marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 30C5 (+DTT). Lane 4. Size marker.

Peak Table

Peak #	RT (min)	Area	Area %
1	6.173	134.81	5.66
2	7.388	2245.20	94.34

Chromatogram

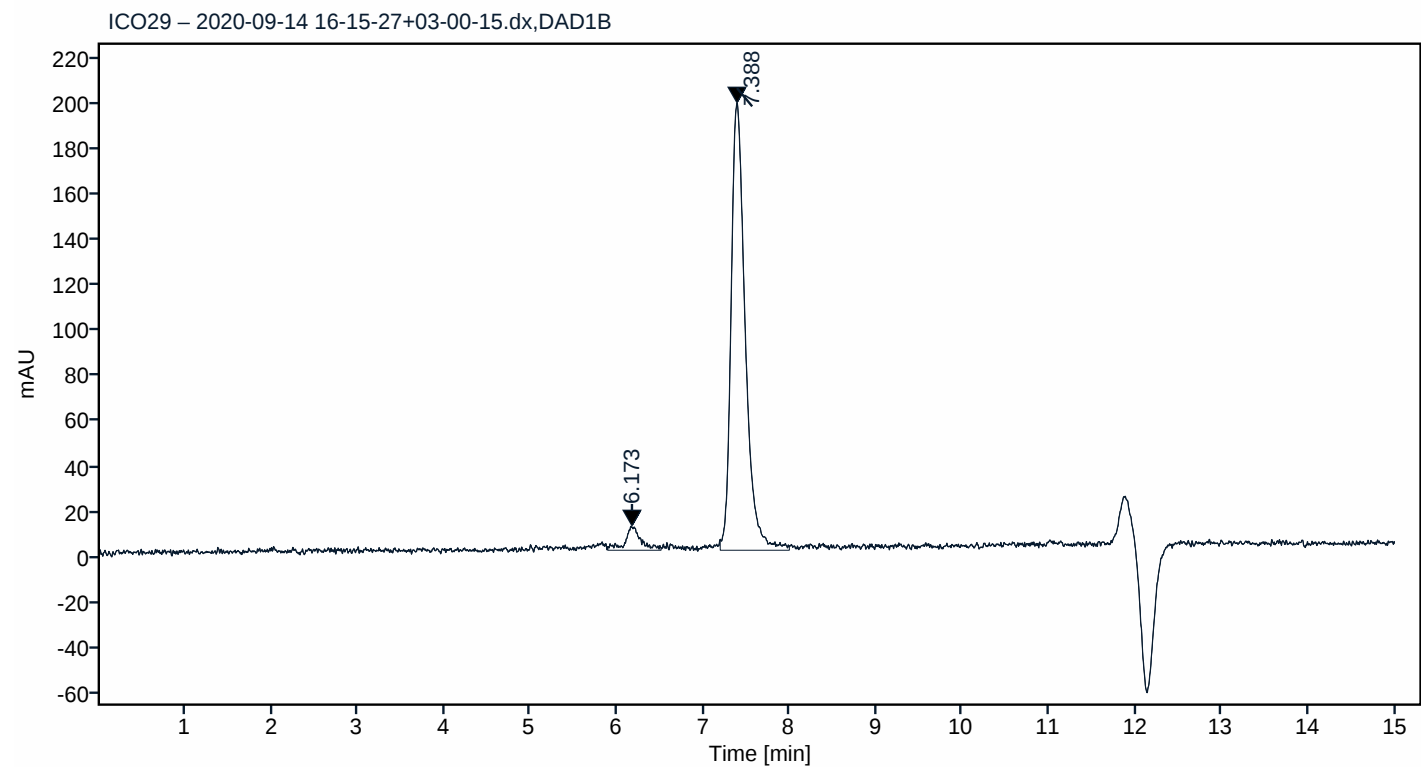


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	6.175	98.55	5.58
2	7.385	1666.70	94.42

Chromatogram

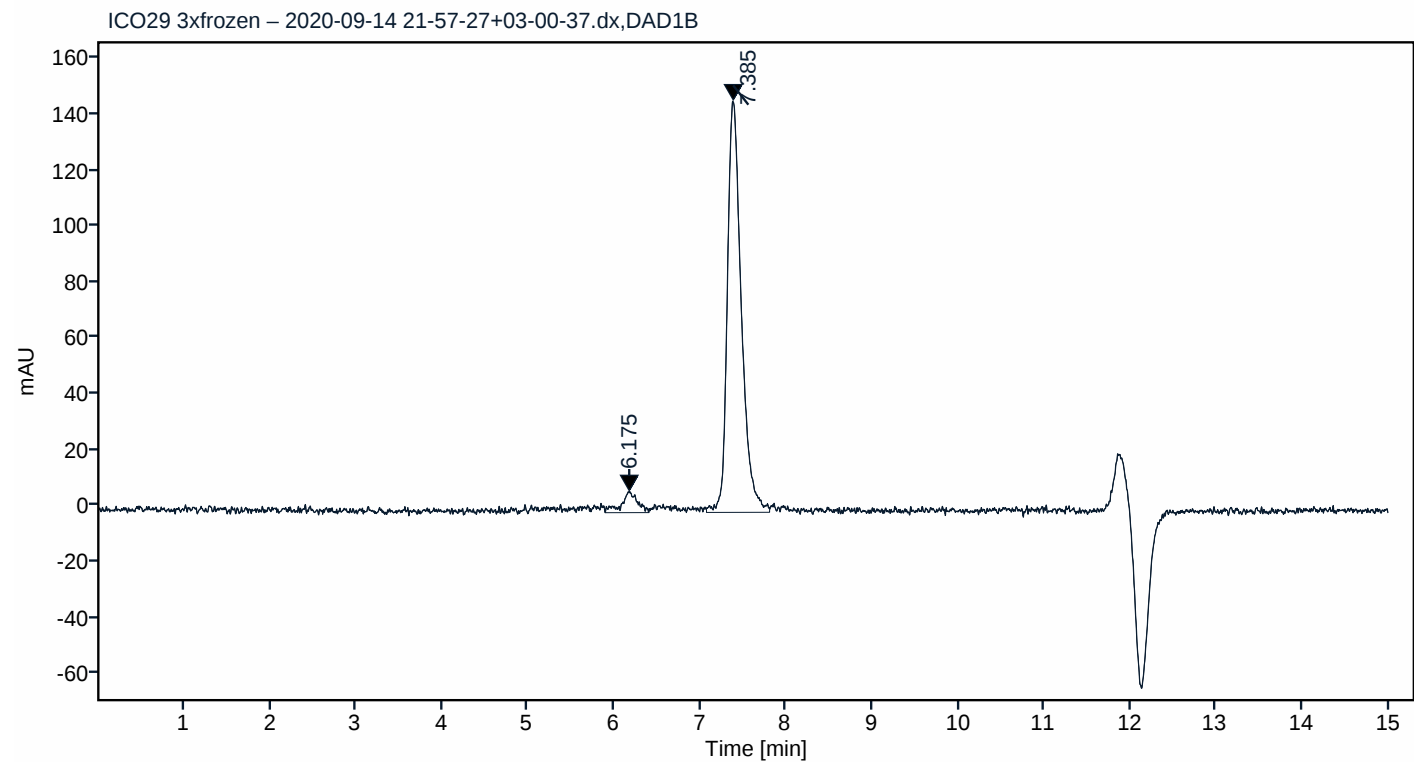


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.