



Human IgG1-lambda antibody to SARS CoV-2 S1 RBD (clone 28H3)

Catalogue #	R1-156-100
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:	28H3
Class:	hIgG1
Reactivity:	SARS-CoV-2 Spike RBD
Dissociation constant (K_D):	$< 1.0 \times 10^{-12}$ M (measured against SARS-CoV-2 Trimeric Spike protein) 3.22×10^{-9} M (measured against SARS-CoV-2 Spike S1 protein)
Application:	ELISA
ELISA:	indirect ELISA 0,02-0,04 ng/ml
Purification:	Protein A affinity chromatography following gel filtration
Concentration:	1 mg/ml
Buffer:	PBS pH 7.4
QC:	SDS-PAGE, analytical SEC for final product and after 3 freeze-thaw cycles,
Shipping:	Shipped at ambient temperature.
Storage:	Store at +4 °C. Avoid multiple freeze-thaw cycles.

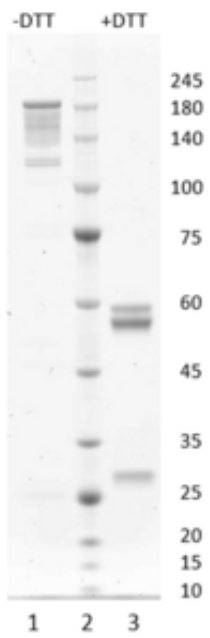


Figure 1. Coomassie-stained SDS-PAGE analysis of monoclonal antibody to SARS-CoV-2 Spike RBD, clone 28H3. 4-12% gradient gel is used for analysis. Lane 1. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 28H3 (-DTT). Lane 2. Size Marker. Lane 3. Monoclonal antibody to SARS-CoV-2 Spike RBD, clone 28H3 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	7.060	5253.32	100.00

Chromatogram

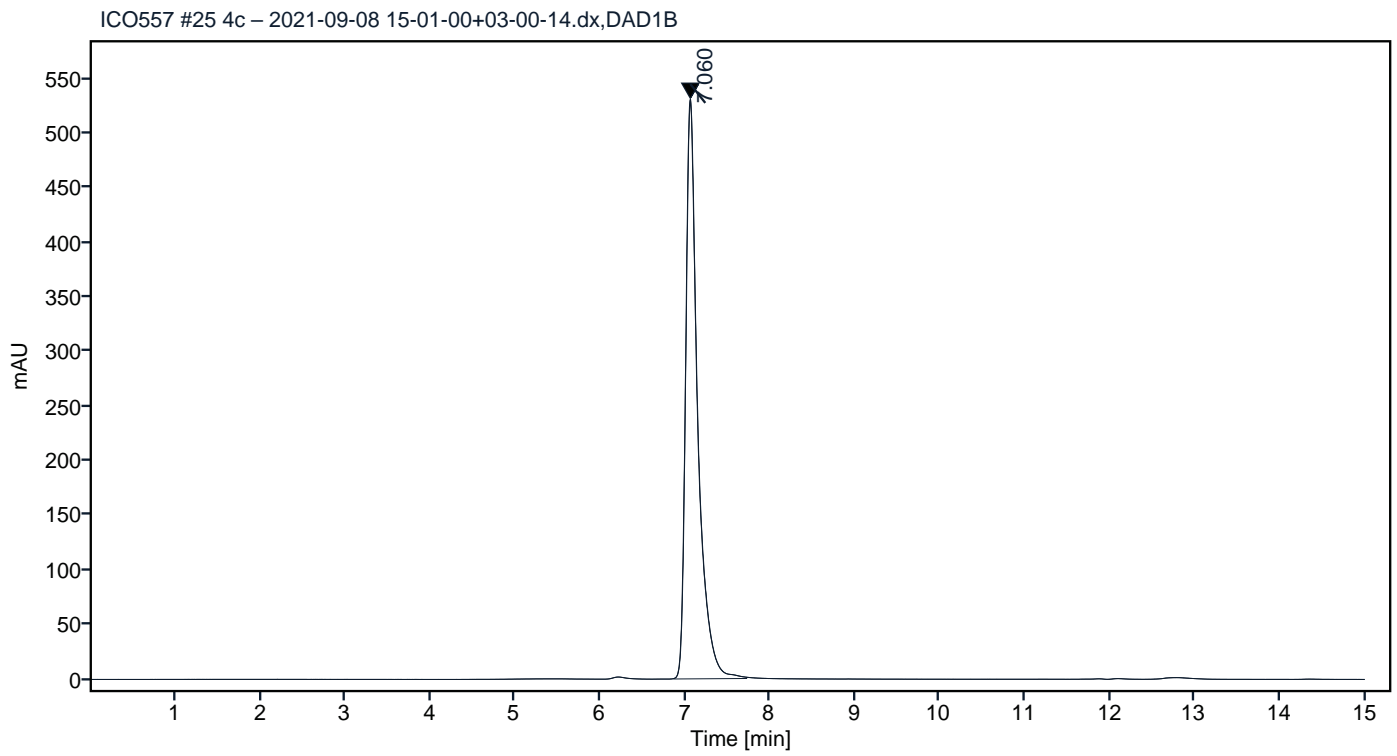


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	7.060	4172.35	100.00

Chromatogram

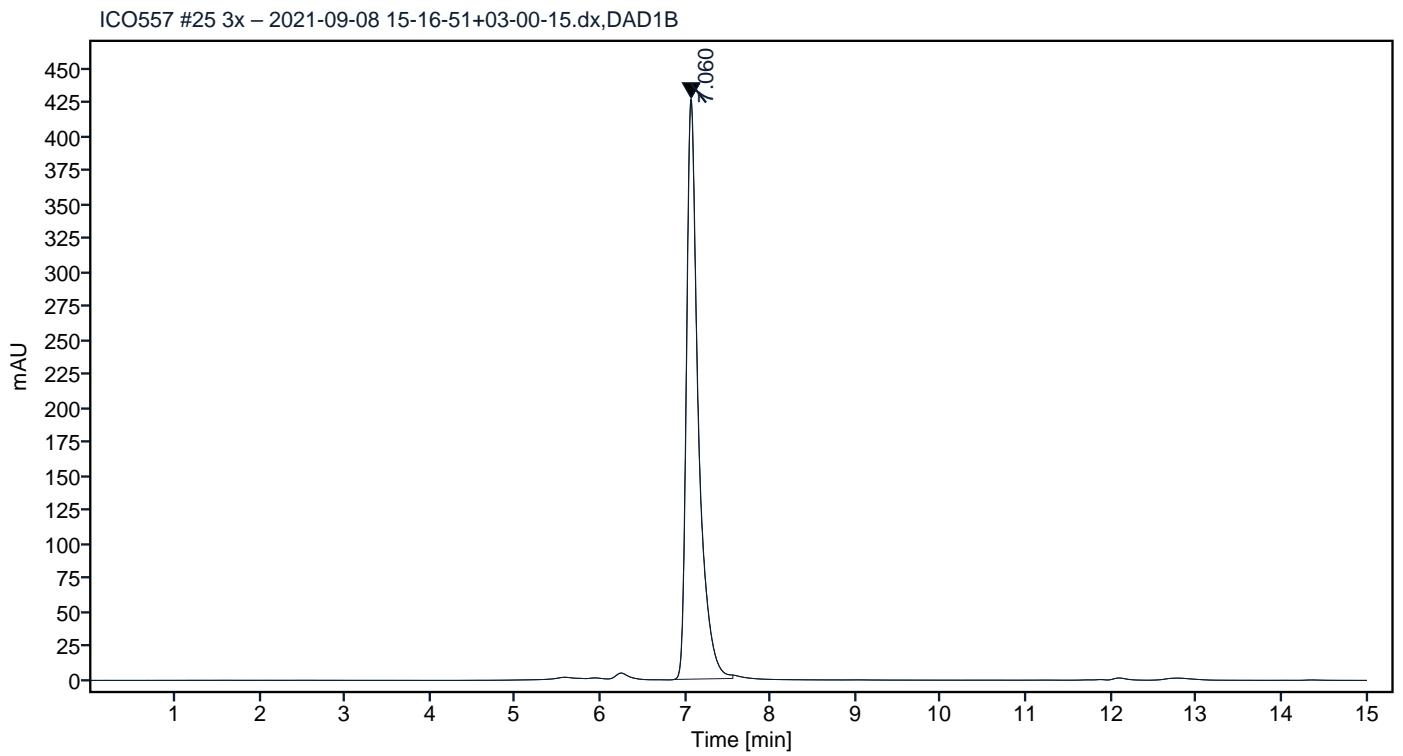


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

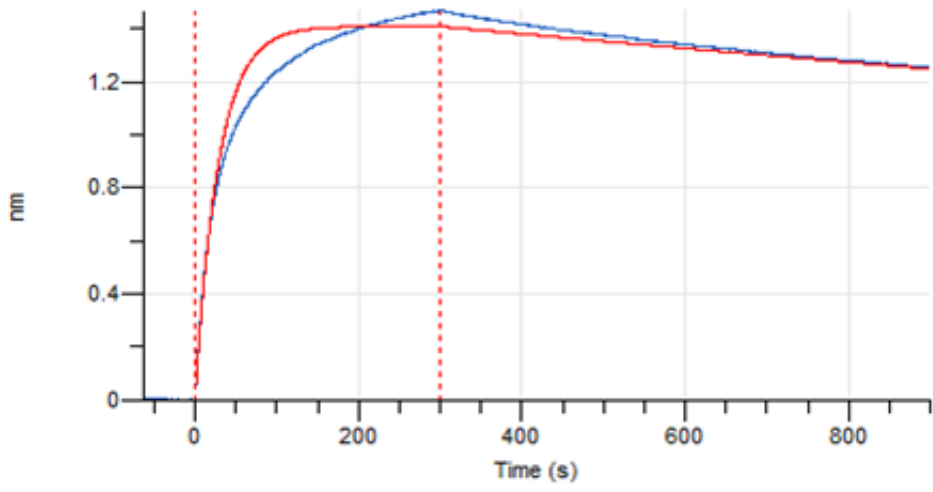


Figure 4. Octet RED96e analysis, antibody was loaded on sensor for capture of Spike S1 protein.