



Monoclonal antibody to C-reactive protein, clone 4D1, hIgG1

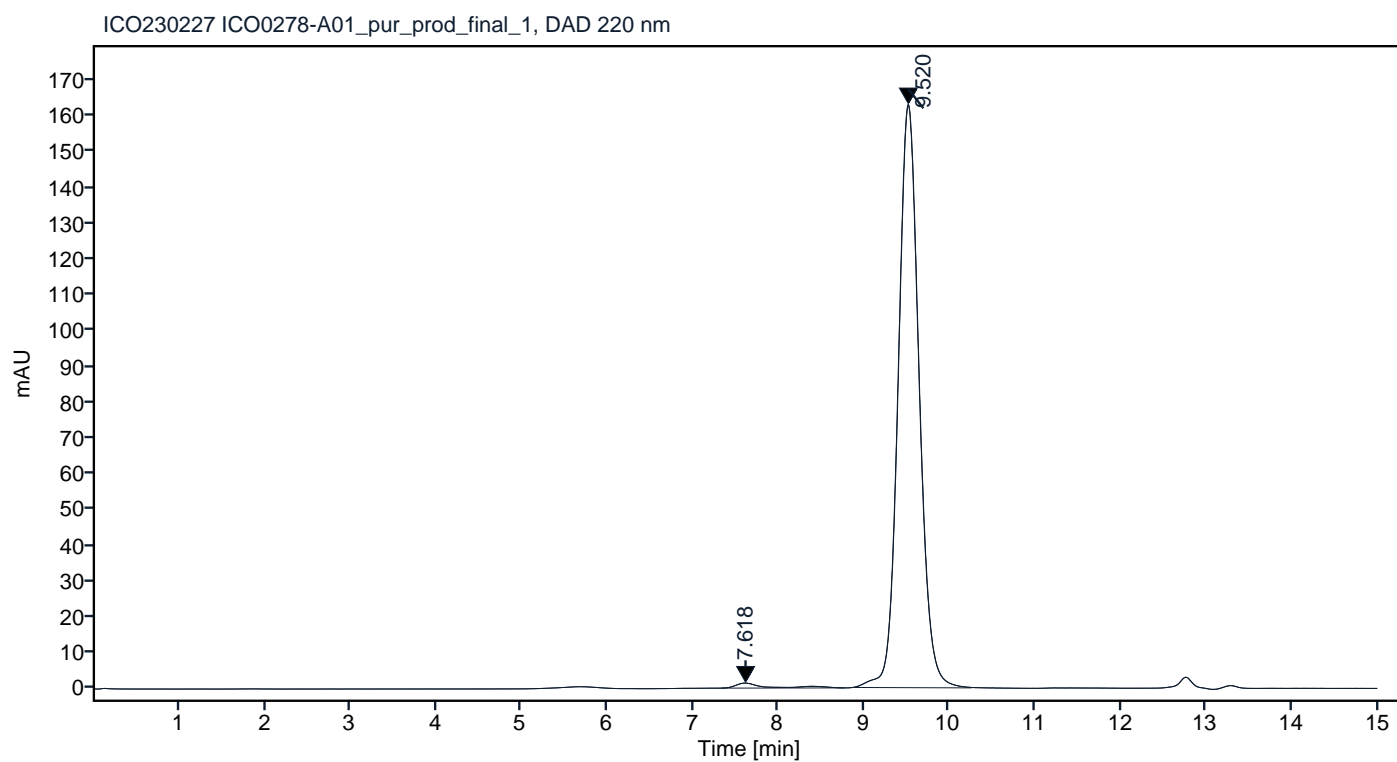
Catalogue #	R1-258-100
Immunogen:	Native human C-reactive protein
Immunogen Description:	Native human C-reactive protein
Source:	Human
Clonality:	Human monoclonal
Clone:	4D1
Class:	hIgG1
Application:	ELISA, CLIA
Kd:	1.991 x 10 ⁻¹¹ M
Purification:	Produced recombinantly using CHO-based cell line (expressed by QMCF technology). Purified using protein A affinity chromatography followed by desalting
Purity:	>90%
Concentration:	1 mg/ml
Buffer:	PBS, pH 7.4
QC:	LabChip protein analysis, analytical SEC, Octet BLI analysis
Shipping:	Shipped with blue ice.
Storage:	Store at +4 °C.



Figure 1. CE-SDS virtual gel output (LabChip GX) for monoclonal antibody to C-reactive protein, clone 4D1 under non-reduced (NR, left) and reduced (R, right) conditions.

Peak #	RT (min)	Estimated Mw (Da)*	Area	Area %
1	7.618	288479	35.12	1.25
2	9.520	85941	2777.86	98.75

Chromatogram

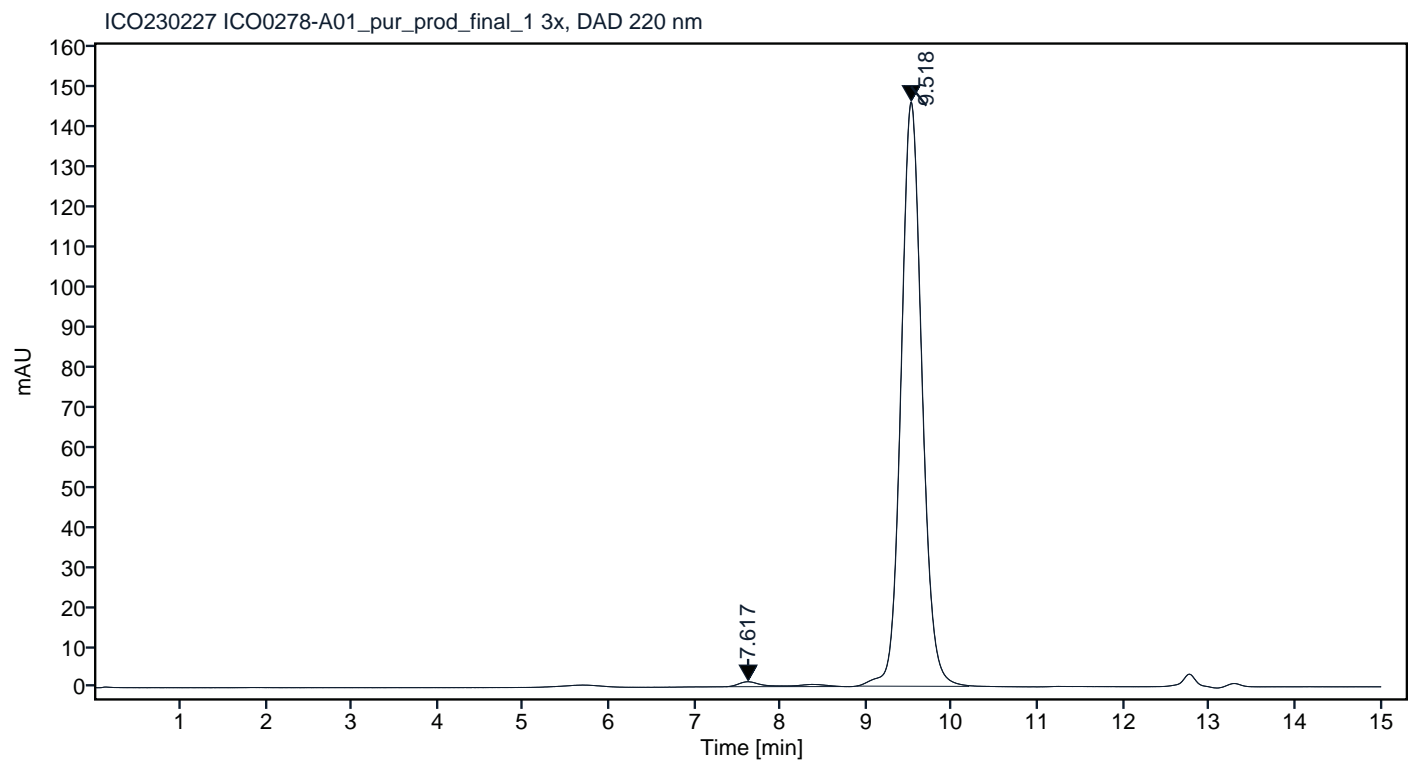


*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

Figure 2. Analytical SEC of final product.

Peak #	RT (min)	Estimated Mw (Da)*	Area	Area %
1	7.617	281846	33.63	1.33
2	9.518	86000	2487.18	98.67

Chromatogram



*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

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

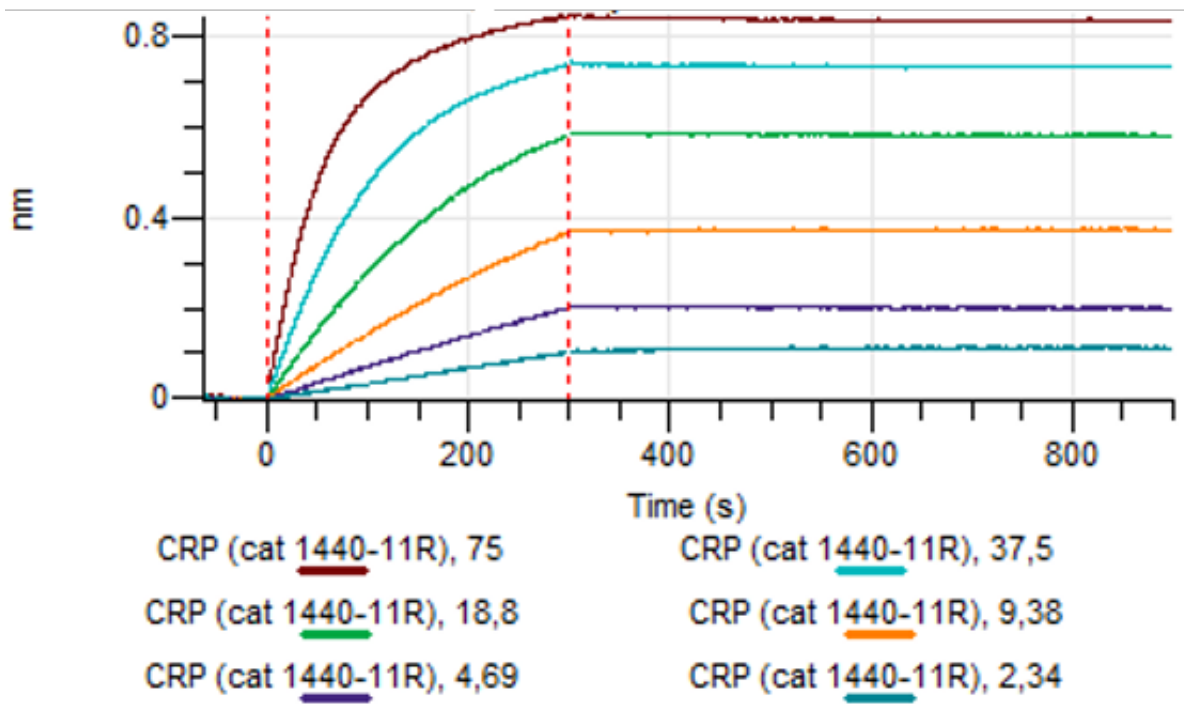


Figure 4. Octet BLI analysis, antibody was loaded on sensor for capture of C-reactive protein in different concentrations.