

## Antibody Production

We produce recombinant full-length IgG antibody, F(ab) and (Fab')<sub>2</sub> antibody fragments, and antibody fusion proteins. Capabilities include construct design, transient mammalian cell expression – in-house or customer provided expression vectors – and affinity purification. Purification services include size exclusion chromatography of up to 10 grams of antibody in a single production run, buffer exchange by dialysis, endotoxin testing, analytical SEC, and SDS-PAGE (reducing and non-reducing).

### Licensed cell lines:

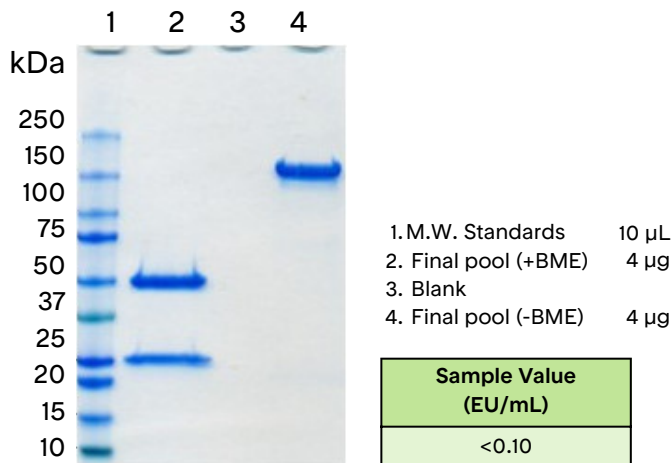
- HEK (human embryonic kidney)
- CHO (Chinese hamster ovary)

### Scalability:

Shake flask culture format from optimization to scale-up ensures reliable scalability and reproducibility.

### Services:

- Analytical scale production and yield determination: 50 mL and 100 mL
- Medium-throughput production: sets of 8 antibodies, 50 mL and 100 mL scale
- Pilot scale production and yield determination: 1-4 L
- Scale-up production: up to 60 L culture volume



### Getting Started

Construct design, plasmid DNA isolation, sequence verification, or customer provided materials, i.e. plasmid DNA or culture supernatant

### Cell Culture

50 mL to 60 L shake flask culture in HEK or CHO cells

### Multiple Targets

Medium-throughput production of antibodies (sets of 8) at the 50 - 100 mL culture scale in HEK or CHO cells

### Additional Services

Antibody purification, analytics, enzymatic production of antibody fragments, & labeling (HRP, biotin, FITC, etc.)

Email [info@proteos.com](mailto:info@proteos.com) to connect with our scientists.

