

# Antibody Production

Proteos provides production of recombinant full-length IgG antibodies and antibody fusion proteins. Our antibody production capabilities include construct design, transient mammalian cell expression – utilizing in-house or customer provided expression vectors – and affinity purification. Additional purification services offered 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:

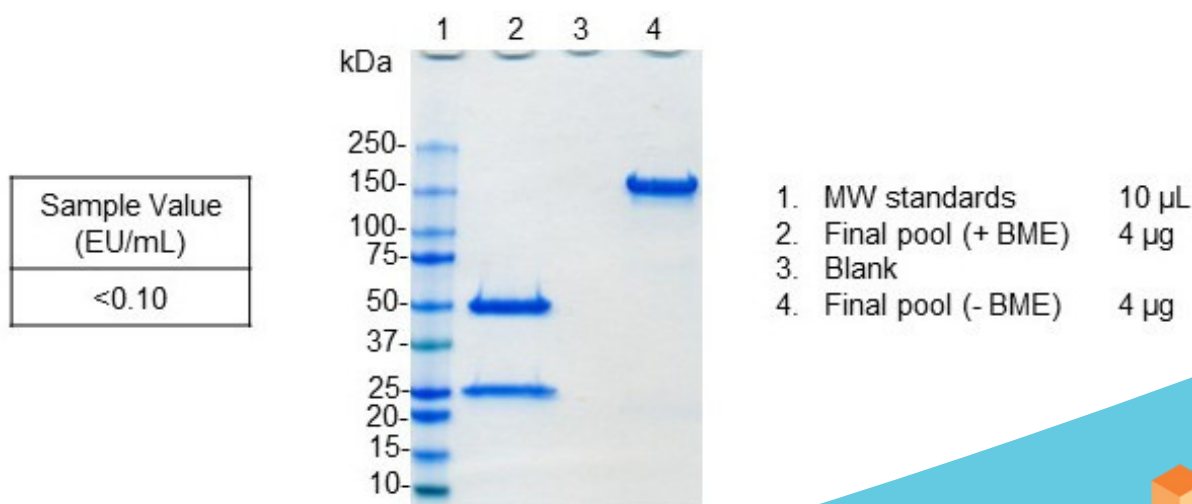
Proteos employs shake flask culture format from optimization to scale-up resulting in reliable scalability and reproducibility.

## 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
- Antibody purification, analytics, enzymatic production of antibody fragments (F(ab) and (Fab')<sub>2</sub>), and labeling (HRP, biotin, FITC, etc.)

## Recombinant antibody purification:

Analyzed via reducing and non-reducing SDS-PAGE, 4-20% Tris-glycine TGX gel, Instant Blue gel stain.



### 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 (F(ab) and (Fab')<sub>2</sub>), and labeling (HRP, biotin, FITC, etc.)