



# GLP Custom Polyclonal Antibodies

For over 30 years, Noble Life Sciences has supplied custom polyclonal antibody services using a variety of animal species. Our GLP custom polyclonal antibodies are ideal for vaccine potency testing. We offer two standard protocols which are designed to maximize antibody production in terms of levels of antibody, avidity and volume of serum. Client-specific protocols may also be used for immunization.

## SERVICE OPTIONS

- GLP or non-GLP
- Immunogen preparation
- Antibody purification
- Titer analysis
- Biodistribution

## SPECIES OPTIONS

- Goats
- Sheep
- Donkeys
- Llamas
- Mice and rats
- Others on request
- Rabbits
- Guinea Pigs
- Ferrets

## PROTOCOLS

### Standard Protocol

- 73 days
- 4 immunizations
- 3 blood collections

### Fast Protocol

- 53 days
- 3 immunizations
- 3 blood collections

## ADDITIONAL SERVICES

### Immunoassay Development Services

Noble will design, optimize, and validate your immunoassay. Immunoassays can be performed using ELISA, ELIspot, and flow cytometry.

### Vaccine Development Services

Noble has experience with a variety of mammalian species used for vaccine discovery and development. We have performed studies ranging from a 3-ferret influenza challenge to 250-guinea pig immunogenicity study.

- Immunogenicity testing
- Immunization protocol development
- Multiple routes of administration

## SPECIES OPTIONS

- Plasmapheresis for large animals
- Protocol extensions
- Custom protocols available

### Adjuvants

- Initial injection with Freund's Complete Adjuvant; subsequent injections with Freund's Incomplete Adjuvant
- Other adjuvants also available

### Immunogens

- Proteins, peptides, DNA, cells and lysates
- Prepared from solution, precipitate, acrylamide gel band, nitrocellulose blot
- Peptide sequence prediction, synthesis and conjugation

### Antibody Purification

- Affinity or protein A/G
- Serum filtration