

Custom Antibody Production: Choosing the Right Type for You

Deciding which type of custom antibody project is right for your research needs is the first step towards initiating a project. There are many factors that should be taken into account, including antibody quantity requirements, desired applications/usages, and cross-reactivity.

There are two main types of projects: monoclonal and polyclonal. Each project type has its own set of advantages and disadvantages. The first factor to determine is which species of host animal should be used for the production of the antibodies. The chart below can be used to highlight the benefits of each type of project, depending on your

Polyclonal

PROS

- Quick turnaround
- Inexpensive
- One antibody can work for a variety of applications
- Requires less than 1mg immunogen
- Multiple host species available, including non-mammalian hosts

CONS

- Quantity available limited by number of bleeds
- Lot-to-lot variability in characterization
- Difficulty in reproducing a specific antibody in new animals at later dates

Monoclonal

PROS

- Unlimited quantity and availability of antibody
- Lot-to-lot consistency
- High specificity of antibodies
- Quick reproduction of antibody through ascites production

CONS

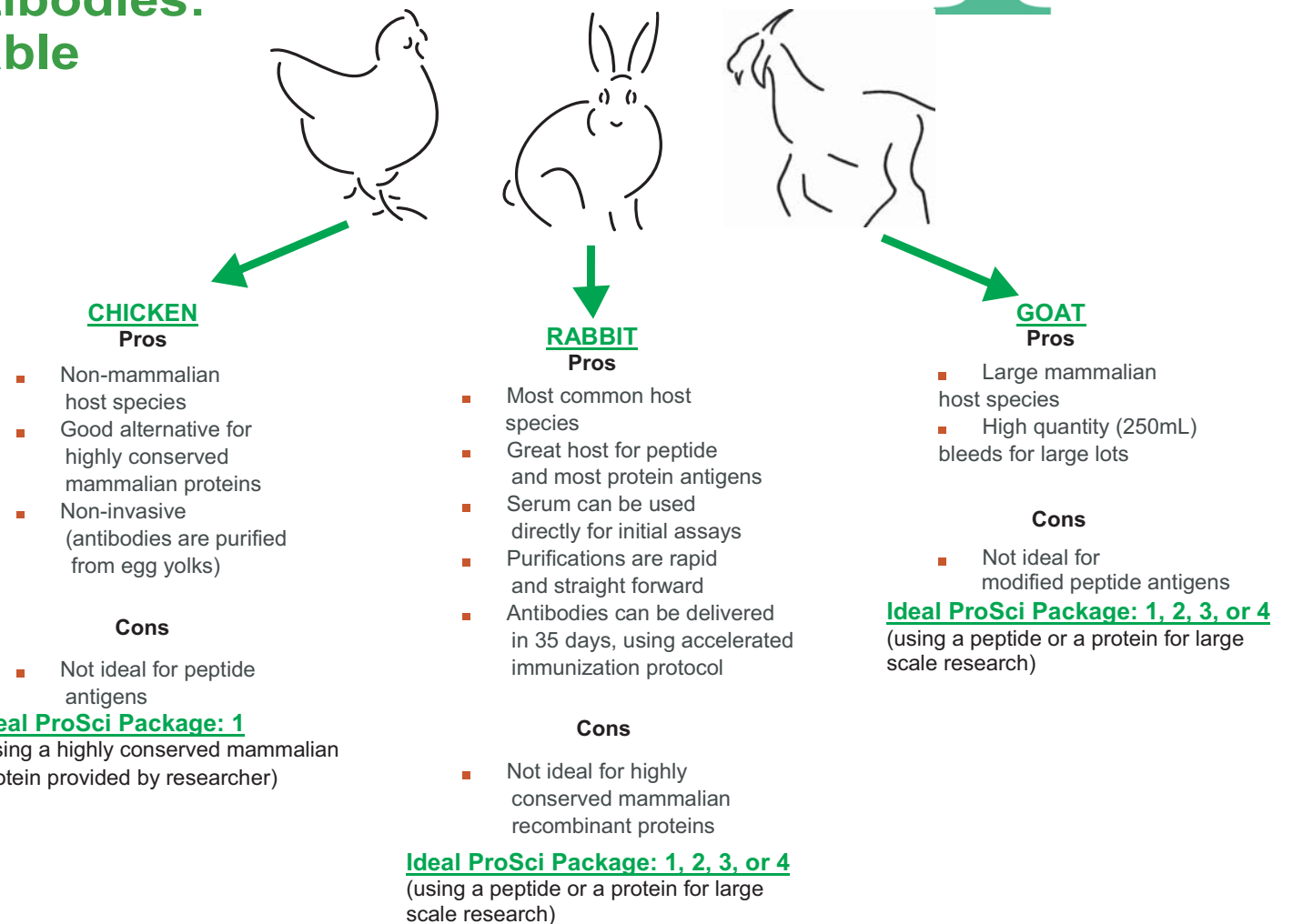
- Longer production time
- Requires a minimum of 4 mgs immunogen
- Higher cost of development
- Antibodies less likely to work for multiple applications
- More difficult if using peptide immunogens



Our animal facility is located in San Diego County, and is regularly inspected by the USDA (license number 93-R-0821), and is OLAW/NIH compliant (Animal Welfare Assurance number A4550-01). All protocols offered are IACUC approved, and designed to minimize animal discomfort.

For more information about ProSci's custom antibody development services, please contact abservices@prosci-inc.com or visit www.prosci-inc.com.

Polyclonal Antibodies: Species Available



Monoclonal Antibodies: Species Available

