



## Hen Polyclonal Antibody Production

- SPECIES:** *Our white Leghorn hens are well suited for the purpose of antibody production and lay approximately 300 eggs/year.*
- ADJUVANT:** *Freund's Complete Adjuvant (FCA) initially, followed by Freund's Incomplete Adjuvant (FIA) for all subsequent injections. If another type of adjuvant is preferred, please contact us and we will arrange custom solutions.*
- ANTIGEN:** *Typically proteins and conjugated peptides. The typical amount of antigen used for each immunization is 100µg. Depending on the antigen, higher amounts may be required to create a desirable response. However, in some cases 25-50 µg antigen/immunization is sufficient to produce a good antibody titer in serum. Boost-doses can be adjusted along the project's progress.*
- EGG COLLECTION:** *Pre-immune eggs (2 eggs) are collected prior to first immunization. Ten eggs are collected during week 10 and every four weeks as the project proceeds.*
- PURIFICATION OF IgY:** *We offer IgY purification of egg yolks. The method we use is based on extractions using PEG, and gives a purity of minimum 85% IgY in PBS solution. We can then run the IgY solution through a affinity purification column to extract the antigen-specific antibodies.*
- THE SCHEDULE:** *The standard schedule below can be adjusted to fit your project.*

### FREE CONSULTATION

We offer free consultation throughout the antibody production. As every project is unique, we work you through all the alternatives so that the production fits your needs in regards to choice of species, amount of antibody needed, immunization schedule, and amount of antigen/immunization.

### DOCUMENTATION

Project reports are generated continuously throughout the process of antiserum production (see in schedule on the right). In the documents we report, in detail, events carried out and scheduled events.

### THE STANDARD SCHEDULE

Week -1	Consultation (Receiving antigen) Pre-immune egg collection
Week 0	Immunize with antigen in FCA Project Report 1
Week 4	Immunize with antigen in FIA
Week 8	Immunize with antigen in FIA
Week 10	<b>1<sup>st</sup> Egg collection</b> Project Report 2 (Consultation)
Week 12	Immunize with antigen in FIA
Week 14	<b>2<sup>nd</sup> Egg collection</b> Project Report 3 (Consultation)
Week 16	Immunize with antigen in FIA
Week 18	<b>3<sup>rd</sup> Egg collection</b> Project Report 3 (Consultation)
	...And so on...