

Custom Antibody Production: Project Design

The APS custom antibody production unit holds a licence under the Animals (Scientific Procedures) Act. Our facilities are regulated and controlled under strict UK Home Office guidelines ensuring a high standard of animal care by experienced and dedicated staff.

The following elements are considered before starting any project:

- Choice of antigen/immunogen:
- Assessment of screening methods: Specifically in relation to the intended end use of the material
- For Monoclonal antibody production: Hybridoma development and expectations, with particular focus on the screening of candidate clones
- Purification: In order to fully understand the requirements for scale, labelling etc.

Prior to any project commencing, a Justification Application must be completed and returned in order to acquire the necessary veterinary approval to proceed. All schedules are also sent for pre-approval and sign-off prior to any work commencing on the project. No project will be terminated without written consent.

Please contact us at sales@lifesciencegroup.co.uk to discuss your project requirements in detail.

Standard Custom mAb Production Workflow:



A typical project includes the immunisation of 4 mice, fusion of immune cells (typically providing 20-30 candidate hybridomas), sub-cloning to produce up to 5-10 clones, and finally expansion and cryopreservation of the chosen clones. Additional services, such as antibody production, scale up, purification, labelling and quality control, can be included as required.

Each project is divided into 4 phases:

- Phase 1 – Antigen design and immunisation
- Phase 2 – Cell fusion and screening
- Phase 3 – Limiting dilution and cloning
- Phase 4 – Bulk antibody production

Standard Custom pAb Production Workflow:



A typical project includes immunisation, the selected animals and their associated husbandry costs, plus bleed material (pre-immunisation, sample and harvest/terminal bleeds). Additional services can be included as required.

Each project is usually divided into the following 4 phases:

- Step 1 – Choice of antigen
- Step 2 – Range of host animals
- Step 3 – Immunisation protocols
- Step 4 – Project termination

Ownership

Antibodies remain the property of the client.

Support

Antibody Production Services is a division of Life Science Group Ltd.

To learn more, contact us:

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