



**virax**  **biolabs**

**Custom Antibody Solutions**

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Antibody Development  
Antibody Formatting  
Antibody Expression

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# antibody solutions

At Virax Biolabs, we specialize in delivering customized antibody solutions tailored to your research needs. Our experienced team can generate highly specific and potent antibodies, while ensuring exceptional quality and repeatability.

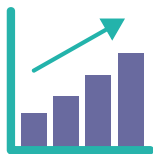
Whether you're working on novel targets or need reliable alternatives to catalogue antibodies, our services cover every step from antigen design and expression, to production, screening, and characterization, making us the ideal partner for anyone looking for cost-effective antibody solutions.

## antibody development

We provide specialised Phage Display Services to accelerate the discovery of antibodies, identifying high-affinity binders with precision, targeting specific antigens for a wide range of research applications. Our streamlined monoclonal antibody development services ensure efficient and reliable results in as little as 2 months, addressing common challenges like immunogenicity and humanization.



Fast  
turnaround



Scalable  
production



End-to-End  
Support



Competitive  
Prices



Diverse  
Antibody  
Formats



Robust Quality  
Control

### workflow

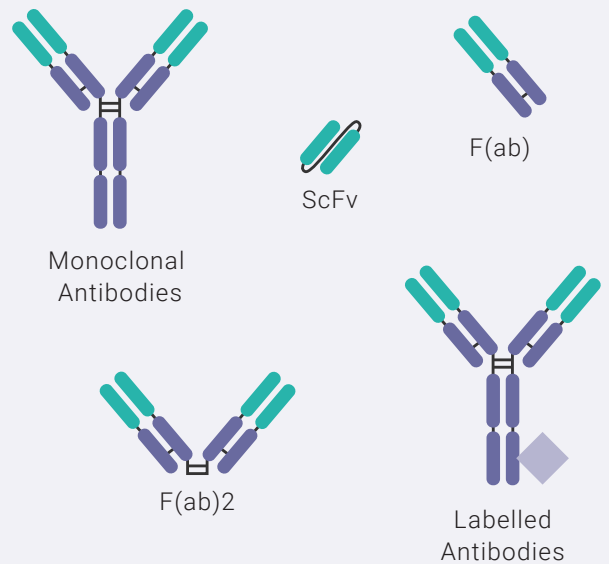
- ❖ **Target Antigen Validation:** we verify the target antigen and can also produce recombinant antigens if needed.
- ❖ **Biopanning:** selection of high-affinity antibodies through multiple rounds of library screening.
- ❖ **Biochemical Validation and Sequencing:** we screen hit molecules to confirm antibody binding, kinetics and sequence.
- ❖ **Optional reformatting:** We offer a range of antibody formatting services.
- ❖ **Antibody production:** via one of our in-house expression systems.

# antibody formatting

We offer a range of antibody formatting services, including:

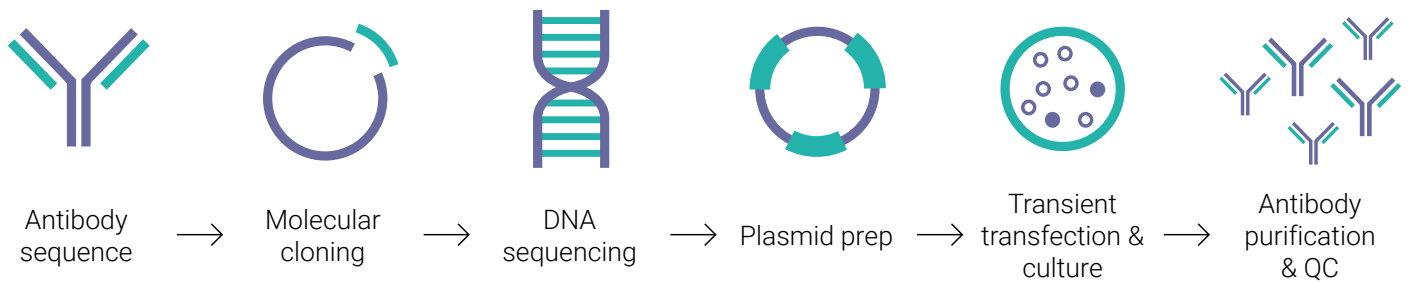
- ❖ Affinity maturation
- ❖ Antibody humanisation
- ❖ Creation of bi-specific antibodies
- ❖ IgG conversion
- ❖ Site-directed mutagenesis
- ❖ Bio-conjugation

Formatting can be performed on novel antibodies as well as antibodies already in use in your lab.



# antibody expression

We have a number of expression platforms, including both mammalian and bacterial expression systems. All antibodies are then purified, analytical and preparative size exclusion chromatography (SEC) performed and full quality control analysis undertaken.



## mammalian expression

### HEK Cells

- ❖ Easy to manipulate and transiently transfect
- ❖ Grow rapidly
- ❖ Generate human glycosylation patterns

### CHO Cells

- ❖ Produce high yields of recombinant proteins
- ❖ Generate human-compatible glycosylation patterns
- ❖ Easy to scale up for manufacturing

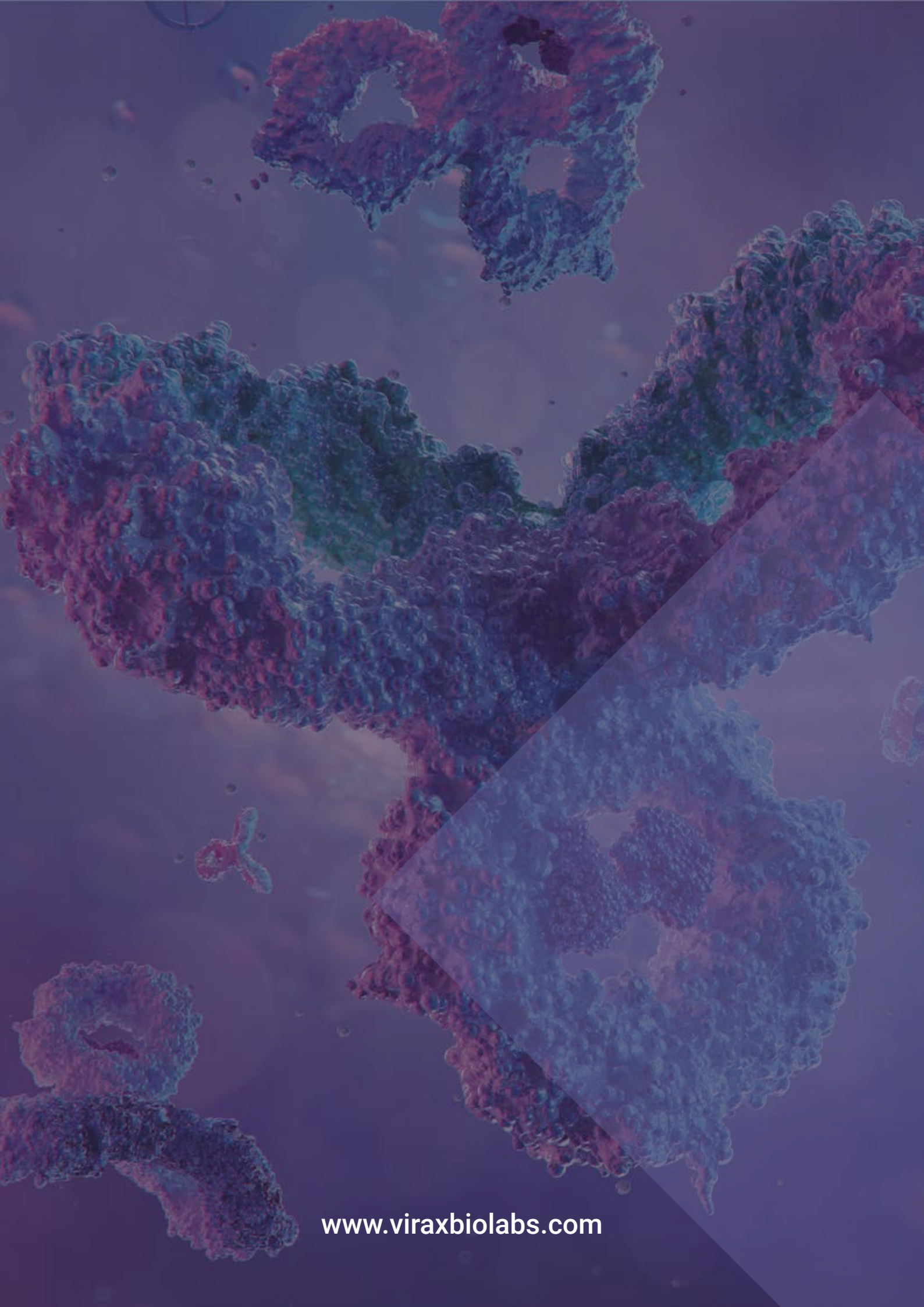
## bacterial expression

### E. coli

- ❖ Lower cost
- ❖ Grow extremely quickly
- ❖ Easy to scale up for manufacturing

We put you in control with flexible, customizable options that allow you to steer your project in the direction you need, and our experienced specialists will work closely with you to create a personalized plan, ensuring your project's success.

Contact us at [support@viraxbiolabs.com](mailto:support@viraxbiolabs.com) to find out how we can help you identify the custom antibody solution that's right for you.



[www.viraxbiolabs.com](http://www.viraxbiolabs.com)