ProSci™

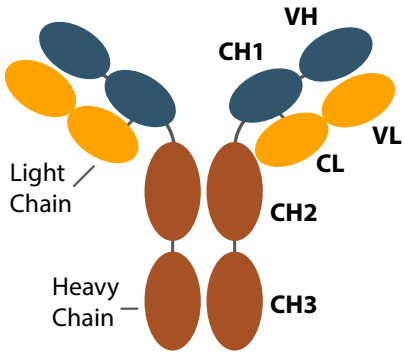
High-Performance Antibodies for High-Impact Research

Rabbit Monoclonal Antibody Development

Rabbit Monoclonal Antibody Characteristics

Recombinant rabbit monoclonal antibodies are excellent tools for challenging targets such as small molecules or post-translational modifications. They have high affinity due to the rabbit's robust immune system. Several methods are used to develop custom rabbit monoclonal antibodies, such as hybridoma generation, phage display, or B-cell cloning.

ProSci's B-cell development platform allows for careful selection of the ideal antibodies and preservation and immortalization through conversion to a recombinant. Recombinant antibodies provide the specificity of a monoclonal antibody but, more importantly, eliminate the potential loss of a hybridoma clone through the preservation of the heavy and light chain sequences, which minimizes lot-to-lot production variability through production as recombinant proteins.



Conventional Antibody

Monoclonal Technology Comparison

	Hybridoma	Phage Display	Single B-cell Cloning
Starting Material	B-cells	B-cells	B-cells
Antibody Diversity	Medium	Low	High

Advantages of Partnering with ProSci

- 25+ years developing antibodies
- 25,000+ custom antibodies developed
- Customizable services tailored to your needs

Explore ProSci Rabbit Monoclonal Antibody Development Services

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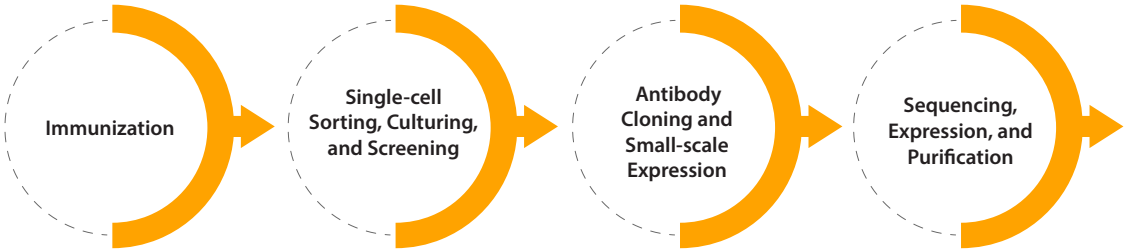
Phone: 858.513.2638 • **WEB:** prosci-services.com • **EMAIL:** services@prosci-services.com

Rabbit Monoclonal Antibody Development Process



Rabbit Monoclonal Antibody Development Packages

Premier

Client-provided Splenocytes

- **Phase II: Single-cell Sorting, Culturing, and Screening**
  - Splenocyte isolation from 1 rabbit
  - Sorting and culturing antibody secreting B-cells
  - ELISA screening
- **Phase III: Antibody Cloning and Small-scale Expression**
  - Cloning variable regions from B-cells
  - Transient expression of recombinant antibodies
- **Phase IV: Sequencing, Expression, and Purification**
  - Sequencing heavy and light chains
  - Expression and purfication of up to 5 antibodies

Pro

Client-provided Antigen

- **Phase I: Immunization**
  - 3 Rabbits
  - 1 Pre-immune serum collection
  - 5 Immunizations
  - 2 Serum collections
  - ELISA at each serum collection
  - Splenocyte isolation from 2 rabbits
- **Phase II: Single-cell Sorting, Culturing and Screening**
  - Sorting and culturing antibody secreting B-cells
  - ELISA screening
- **Phase III: Antibody Cloning and Small-scale Expression**
  - Cloning variable regions from B-cells
  - Transient expression of recombinant antibodies
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  - Sequencing heavy and light chains
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Deliverables

ELISA-positive B-cell supernatants, up to 96 ELISA-positive recombinant supernatants, up to 10 100µg purified antibody from up to 5 clones DNA and sequences of up to 5 final clones

Need Something Different?
We can customize any package!

Scan the code for more information!

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