

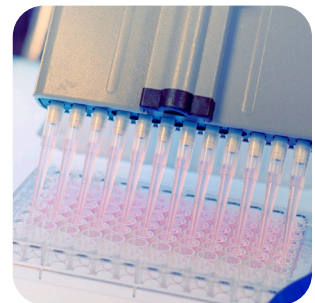


# Rabbit Monoclonal Antibodies



**HIGH PERFORMANCE ANTIBODIES ... AND MORE**

**Broad Antibody Catalog  
Extensive Antibody Services**



# RABBIT MONOCLONAL ANTIBODY SERVICES

Rabbits are becoming increasingly popular for monoclonal antibody development because of their ability to generate a plethora of diverse antibodies with 10 to 100 times the binding affinity of commonly used animal antibodies. Rabbit immunization generates a wide variety of immunoglobulins, providing the opportunity for identifying distinct antibodies capable of distinguishing between very similar molecules.

Our rabbit monoclonal antibodies are developed directly from isolated plasma cells and produced recombinantly. Plasma cells are the most differentiated B-cells having undergone *in vivo* affinity maturation. The development of these specialized antibodies can help researchers avoid common challenges associated with low affinity and non-specific antibodies.

## Monoclonal Technology Comparison

	Hybridoma	Phage Display	Single B Cell Cloning	Single Plasma Cell Cloning
Starting Material	B Cells	B Cells	B Cells	<b>Plasma Cells</b>
Efficiency	≤ 1% Plasma Cells	≤ 1% Plasma Cells	≤ 1% Plasma Cells	<b>100% Plasma Cells</b>
Screening Time	12 Weeks	6 Weeks	3 Weeks	<b>3 Weeks</b>
mAb Affinity	Medium	Low	High	<b>High</b>



**RABBIT MONOCLONAL DEVELOPMENT**  
[prosci-services.com/rabbit-monoclonal-antibodies/](http://prosci-services.com/rabbit-monoclonal-antibodies/)



# RABBIT MONOCLONAL ANTIBODY DEVELOPMENT PROCESS

---

**ProSci's Isolated Plasma Cell Technology** utilizes cell sorting to isolate antigen-specific plasma cells to develop recombinant antibodies. This reduces screening time and increases the efficiency of selecting clones producing high affinity antibodies. Utilizing our powerful cutting-edge technology, ProSci is uniquely positioned to offer **customized, specific, high affinity** rabbit monoclonal antibodies for your needs.

## ● Phase I: Immunization

- Immunization of 3 rabbits on 10-week protocol
- ELISA testing of serum
- Final boost and spleen isolation

## ● Phase II: Single-cell Sorting, Culturing, and Screening

- Sorting and culturing antibody secreting B-cells
- Screening of supernatants by indirect ELISA
- Supernatants from ELISA-positive wells

## ● Phase III: Antibody Cloning and Small-scale Expression

- Cloning variable regions from B-cells
  - Transient expression of recombinant antibodies
  - Screening of supernatants by indirect ELISA
- Supernatants from ELISA-positive wells

## ● Phase IV: Sequencing, Expression, and Purification

- Sequencing heavy and light chains
- Expression and purification of up to 5 antibodies
- Delivery of sequences and plasmid DNA of up to 5 antibodies





prosci-inc.com



#### **CORPORATE HEADQUARTERS**

ProSci Incorporated  
12170 Flint Place  
Poway, CA 92064  
USA

#### **CONTACT INFORMATION**

Toll Free: (888) 513 9525  
Local: (858) 513 2638  
Fax: (858) 513 2692  
E-Mail: [info@prosci-inc.com](mailto:info@prosci-inc.com)

## **HIGH PERFORMANCE ANTIBODIES ... AND MORE**

**Established in 1998**

**Over 20,000 Antibodies, Proteins, and other research tools available**

**Custom Antibody Services available, specializing in Polyclonal, Monoclonal, Rabbit Recombinant Monoclonal, and Single Domain Recombinant Technology**