

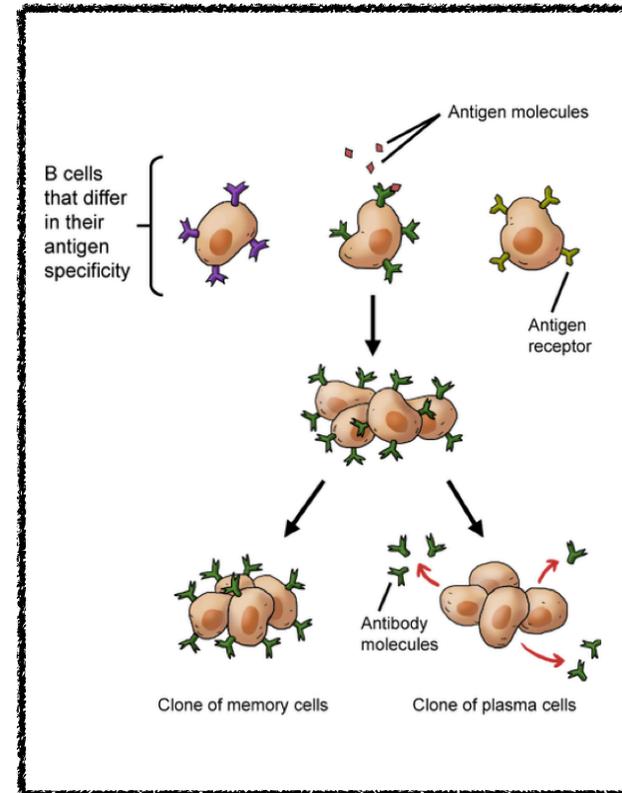
October 1st

PROTEIN IMMUNOLABELLING

Antibody generation

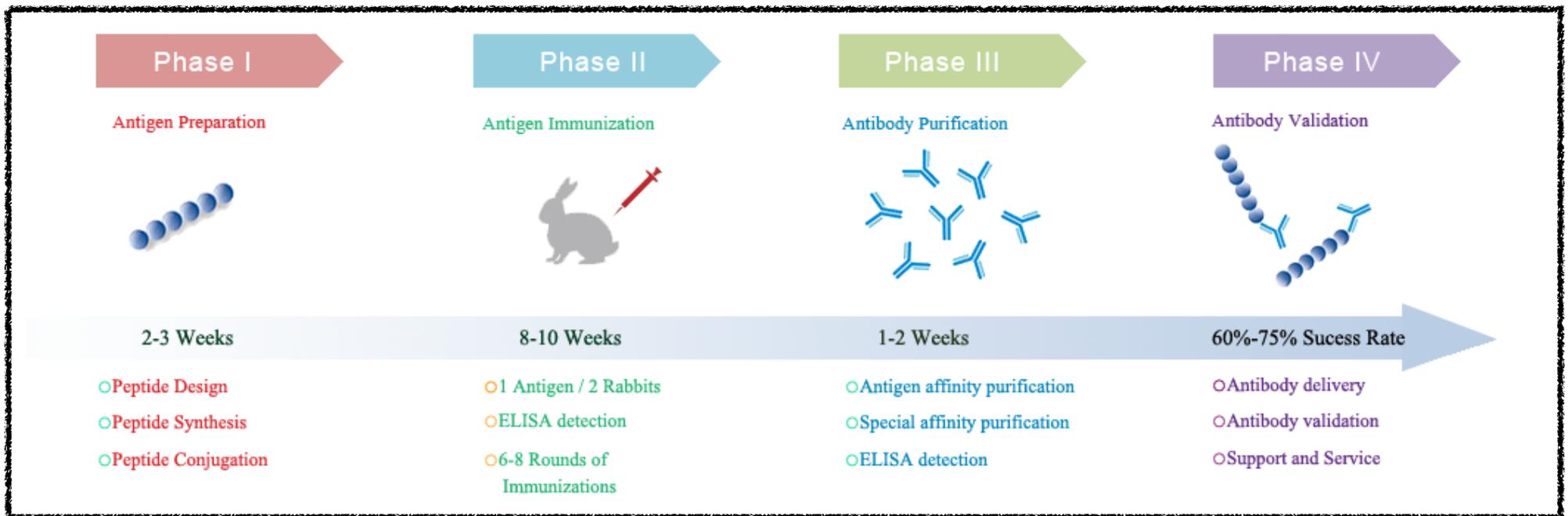
- polyclonal
- monoclonal

Antibody experimental use



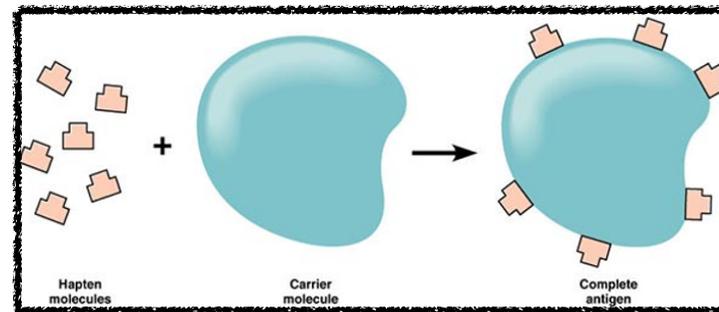
Polyclonal antibody
production

Polyclonal antibody production flowchart

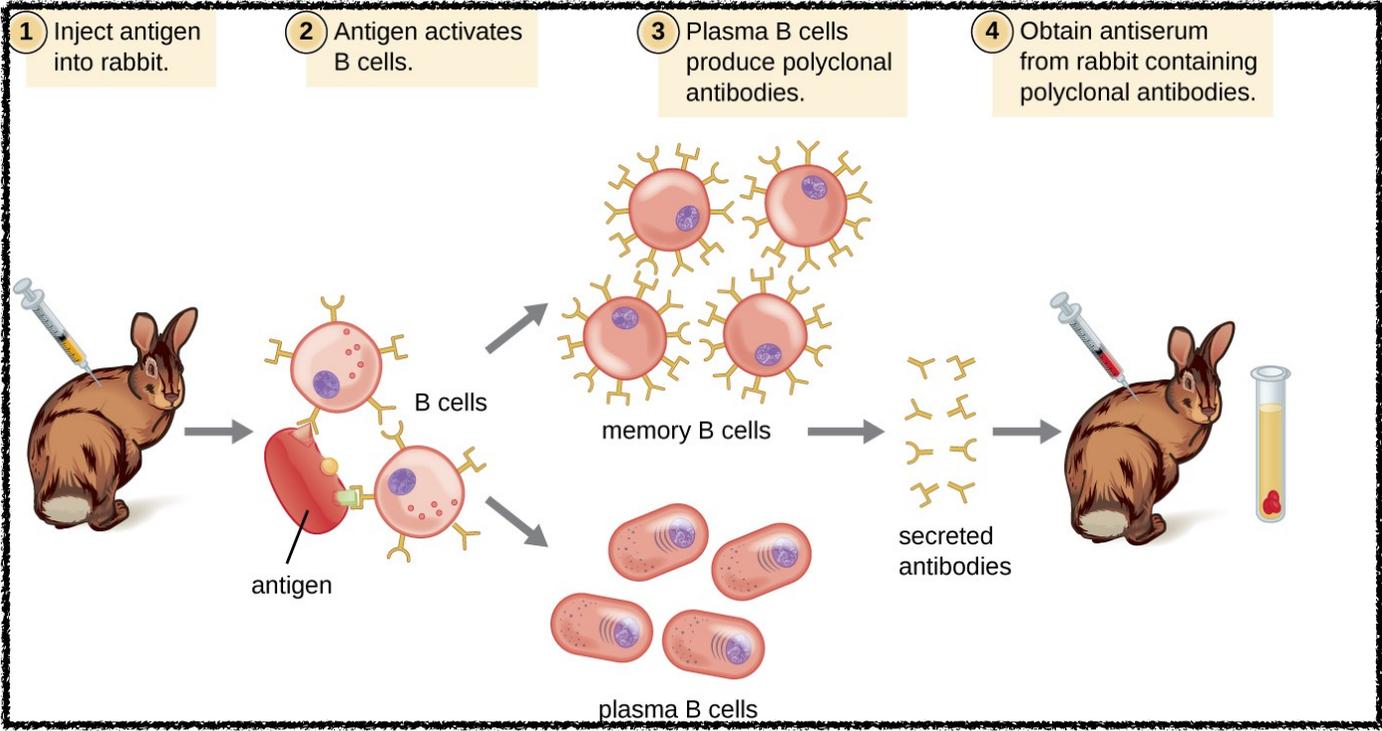


Immunogen vs antigen

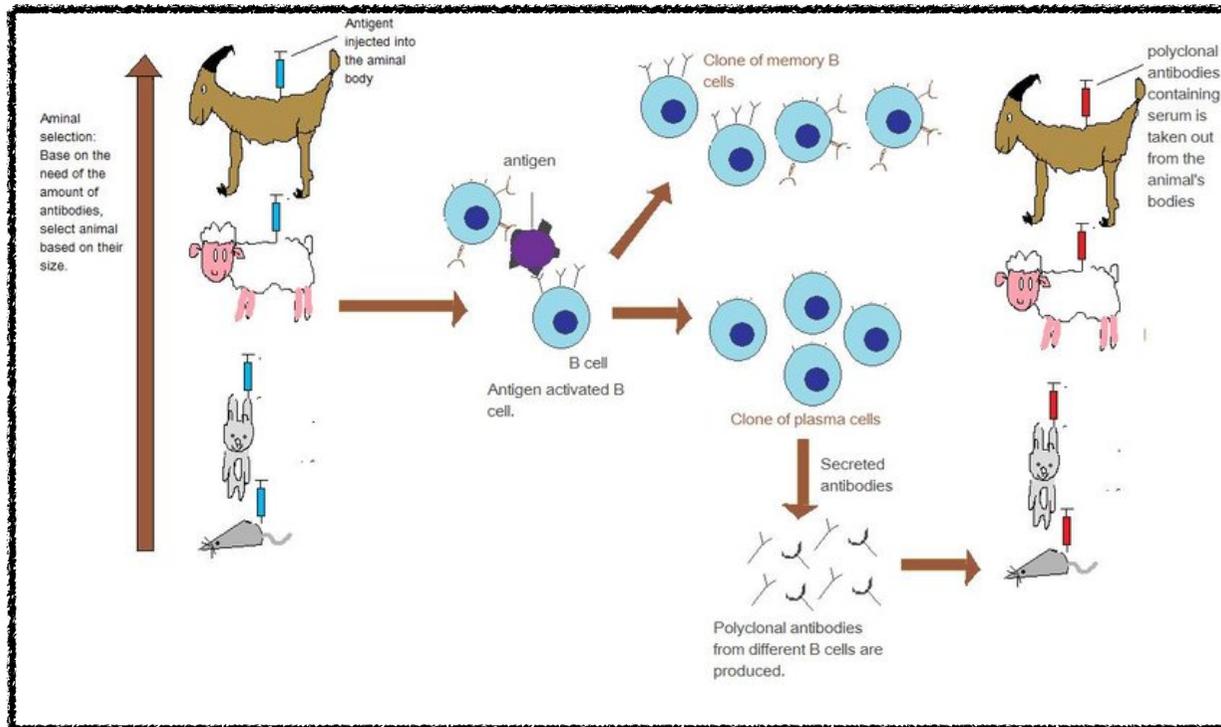
- Immunogen induces immune response
- Antigen reacts with products of the immune response
- Immunogenicity
 - ▶ nature of the immunogenicity
 - ▶ Ability of immune system to react
 - ▶ possible to manipulate
- Epitope (antigenic determinant)
 - ▶ recognised by antibody
 - ▶ recognised by T-cell receptor



Polyclonal antibody production flowchart

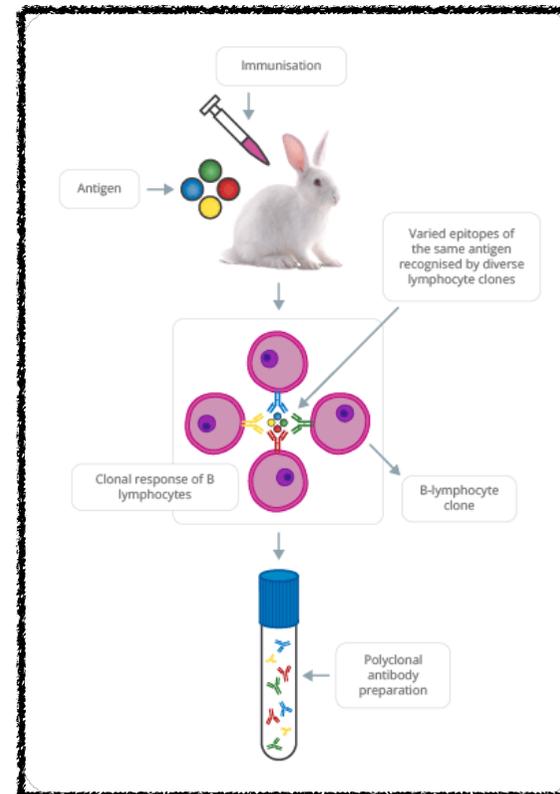


many species can be used



Polyclonal antibody specificity

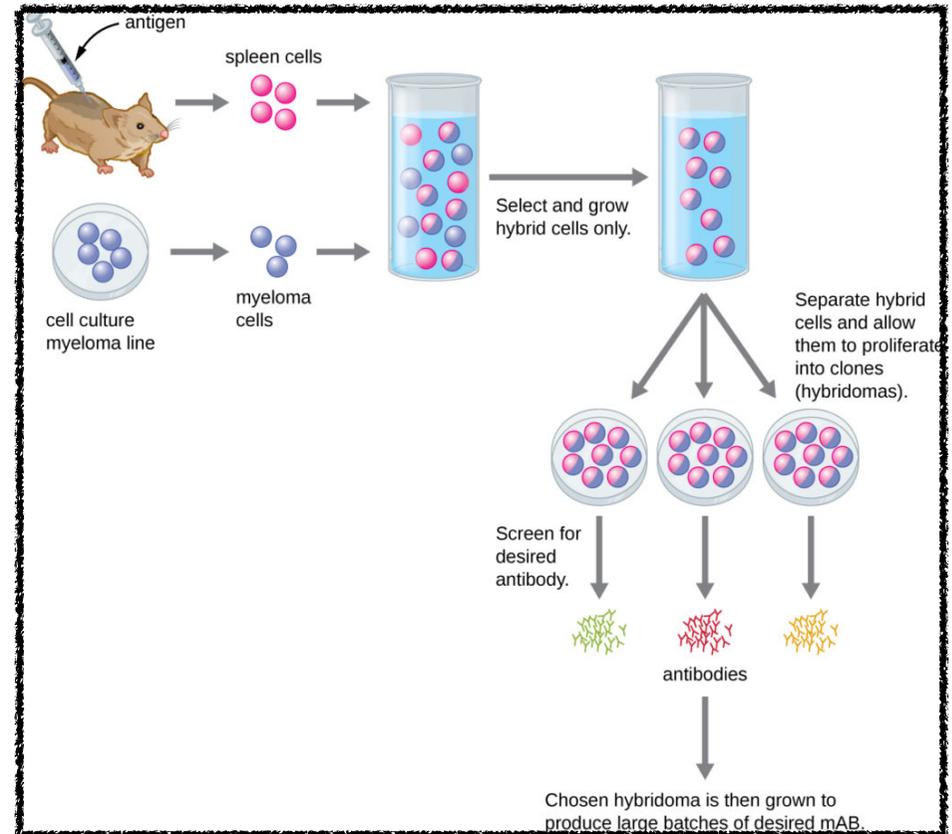
- Depends on the purity of the immunogen



Monoclonal antibody production

Monoclonal antibody production flowchart

- No need for antigen purification
- Requires myeloma cells
- Screen for the desired clones



Questions?