



Monoclonal antibody reagents

Specifica is applying its proven platform for antibody discovery to generate recombinant monoclonal antibody reagents. Our *in vitro* display approach eliminates the need for immunization, addressing animal welfare concerns and insufficient quantities of antigen. Delivery of recombinant sequences ensures higher specificity and reproducibility than animal-based methods, as well as the ability to easily engineer these reagents.

Tool reagents to validate your discovery research

- Antibodies to expedite your basic sciences research programs
 - Including ELISA, WB, IHC, IP and other assays
- Highest-quality recombinant *in vitro* antibodies
- Nearly all antigen types
- Developed from our library of more than 10^{10} transformants
- Phage and yeast display selections from our libraries of scFv and V_H delivers faster antibodies than immunization
- Guaranteed delivery of multiple antibodies with desired binding specificity
- Reliable and reproducible for efficient transition to the next phase of research
- Ability to efficiently re-engineer for improved versatility
- Deliverables include purified protein and antibody sequences

Anti-idiotypes (anti-ids) for drug discovery

- Highest-quality recombinant antibodies using Specifica's proven platform for antibody discovery
 - Fully engineerable – species-specific Fc, isotype and subclass, etc.
- Ideal for capture and/or detection reagents in PK/PD and ADA assays
- Specificity unmatched by immunization or hybridomas
- Highly reproducible for efficient transition to the next phase of research
- Scalable solutions enable rapid production when desired.
- Consistent performance lot-to-lot, removing the 'guess work' of immunization approaches.
- Deliverables include purified protein and antibody sequences



Specifica's team brings a depth of knowledge and a primary focus on generating antibodies. Choose a leading provider of antibody drug discovery to identify and validate your drug target.

Our process



Your deliverables

- Ready-to-use custom antibody reagents
 - Either bulk or aliquots of purified antibody
- Antibody reagent formats: IgG, scFv, and V_HH
- The antibody sequence for future needs
- Sequence also retained at Specifica

Benefits

- Sequence data makes the antibodies reproducible whenever needed
- More humane than animal studies, which require ongoing euthanasia of host animals.¹⁻²
- Fully recombinant antibodies that can be engineered for species-specific Fc, isotype and subclass requirements, facilitating easier method development and secondary reagent selection.
- Higher specificity than polyclonal reagents and no lot-to-lot variation
- Turnaround time of weeks versus months for animal



Turnaround times as quick as 12 weeks

Contact us

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References

1. [https://www.ema.europa.eu/en/human-regulatory-overview/research-development/ethical-use-animals-medicine-testing#:~:text=The%20European%20Medicines%20Agency%20\(EMA,the%20European%20Union%20\(EU\).](https://www.ema.europa.eu/en/human-regulatory-overview/research-development/ethical-use-animals-medicine-testing#:~:text=The%20European%20Medicines%20Agency%20(EMA,the%20European%20Union%20(EU).)
2. <https://www.nal.usda.gov/animal-health-and-welfare/animal-use-alternatives>