

WE DELIVER  
**INNOVATIVE SOLUTIONS**

# DeepDisplay™

## Antibody Discovery Platform

A powerful new technology utilizing a combination of Ligand's OmniAb® transgenic animal platform and ImmunoPrecise Antibodies' custom phage display antibody selection.

### The DeepDisplay™ Advantage:

- Accelerated human antibody discovery
- Obtain sequence-diverse, highly-specific panels of antibodies
- Select rare, therapeutically relevant, fully-human antibody candidates
- Overcome challenges with complex, cell membrane targets

Request a **Free Target Analysis** with our Experts.

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# DeepDisplay™ Case Study



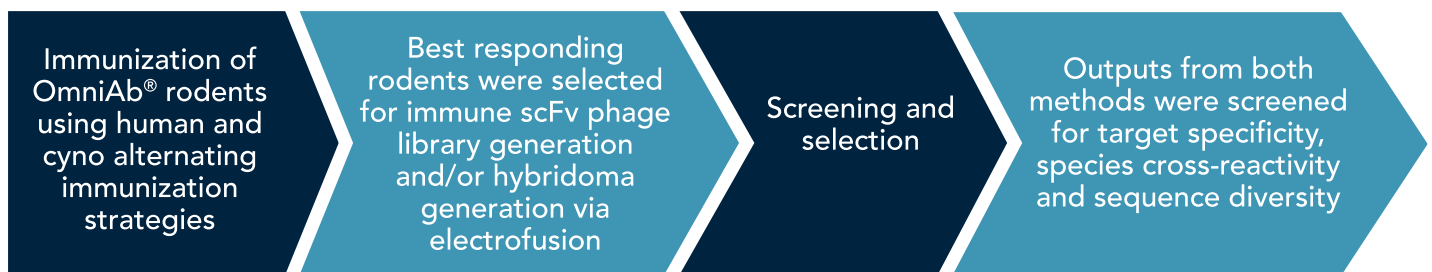
## Transmembrane Therapeutic Target

Deep Display™: Phage Display featuring OmniAb® Transgenic Rodents

### Objective

Generation of fully-human, therapeutic lead antibody candidates with mouse, cyno and human cross-reactivity against a target, comparing phage display technology with hybridoma-based discovery for a large pharmaceutical company.

### Project Phases



### DeepDisplay™ Results

- Five out of eight rodents showed a good immune response against both human and cyno recombinant target protein
- Screening of **360** randomly picked monoclonals from top five selection outputs resulted in a panel of antibodies with diverse target-reactivity profiles
- 20% of the screened monoclonals showed full cross-reactivity toward plate-immobilized and, importantly, cell-associated human, cyno and mouse target
- Sequence analysis of the top **90 phage** clones showed **75 phage-derived unique antibody variable domain sequences**

### Conclusion

- A panel of sequence diverse, human lead antibodies specifically directed against a transmembrane target protein was generated in relatively short time span
- DeepDisplay™, the powerful and unique antibody discovery platform, yielded a diverse pool of antibody lead candidates with broad species cross-reactivity

### Sequence Diversity Analysis

