

Phage Display Technology



g6p: Minor capsid

g4p, g1p: Morphogenesis

Filamentous phage M13 is the mostly commonly used for antibody display.

M13 coat protein 3 (g3p), present on average in 5 phage particle, is often the first choice for phage display fusions because of its tolerance for large

the phage plasmid too large to transfection and amplification.

A phagemid and helper phage system is commonly used for antibody display.

display preferred due to demanding of high affinity monoclonal Abs.

Solid surface immobilized antibody phage screening.

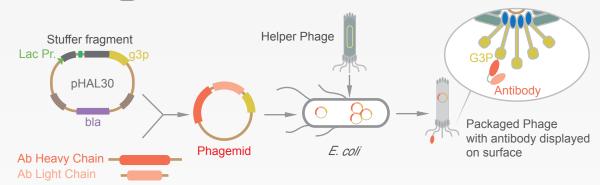
Antibody phage particles antigen and the vast excess phages are removed by stringent washing. Specifi-cally binding antibody cally binding antibody phage are eluted and used the next round screening.

2-3 round of screening are necessary for monoclonal antibody with high enough affinity.

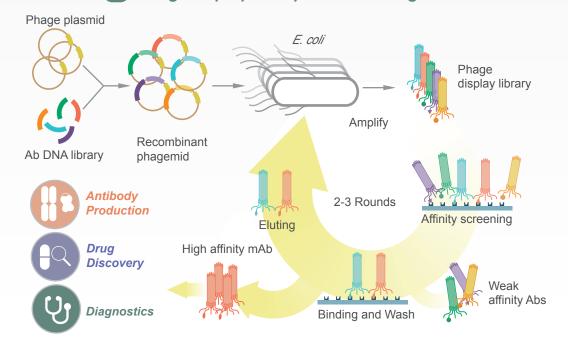
Creative Biolabs Phage Display & **Antibody Library** Services

Phage: structure and genome g2p: RF replication Endonuclease M13 g5p: ssDNA binding g7p: Minor capsid g8p: Major capsid M13 6.4Kb g3p: Absorbtion protein GġP

Phagemid system for antibody display



Phage display library and screening



WHAT WE DO:

- Phage display library construc-
- / Phage display library screening Specific antibody discovery
- Peptidomic discovery

FEATURES:

- / Immune, naïve or synthetic library construction
- Pre-made library screening
- Large library capacity
- High affinity from 10⁻⁷ to 10⁻⁹
- Various phage display systems (M13, T4, T7)
- Tailored biopanning strategies



