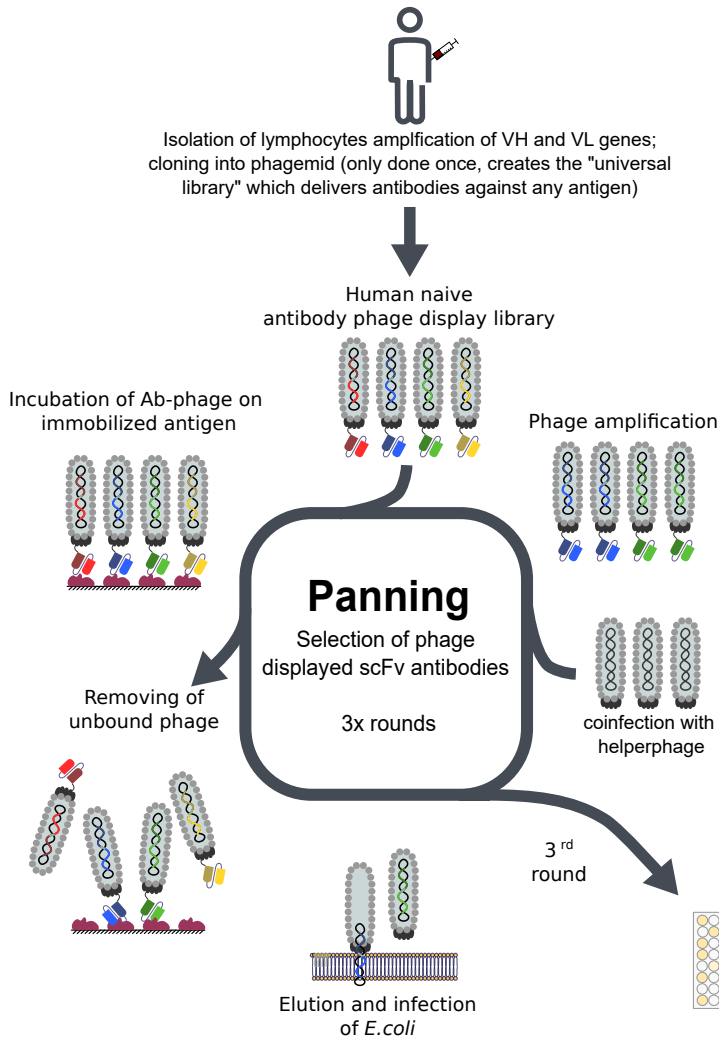


Antibody discovery platform & IgG format conversion

PHAGE DISPLAY



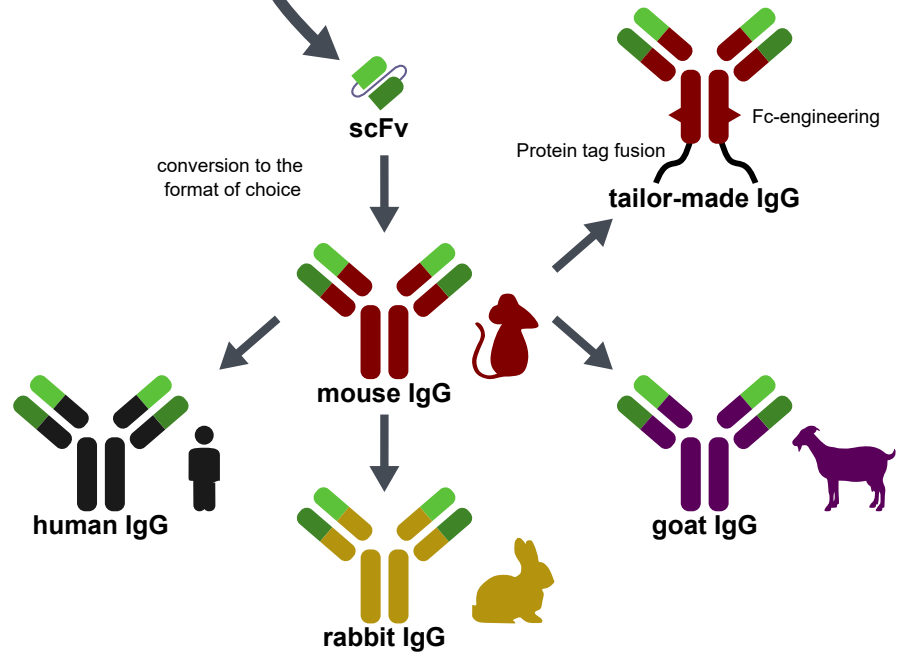
ANTIBODY DISCOVERY

Universal human antibody gene libraries are used at Abcalis to select monoclonal antibodies via phage display, without any need of using animal immunization. Phage particles display a unique monovalent antibody and carry the genetic information that corresponds to it. This principle allows the *in-vitro* selection, among billions of different antibody phage, of monoclonal antibodies showing specific molecular interaction with the target. This controlled process biochemical conditions can be adjusted to match precisely those of the final diagnostic test, ranging from the buffer composition to the elimination of unwanted cross-reactivities.

ENGINEERING

FORMAT CONVERSION

Molecular biology techniques allow to introduce fast and accurate changes in the amino acid sequence of the antibodies after selection. This allows to produce each antibody in different IgG formats, depending on the heavy chain from the species that better fits the final test. Furthermore, it allows to mutate the Fc region or to genetically fuse different protein tags to the Fc-part for better surface immobilization.



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