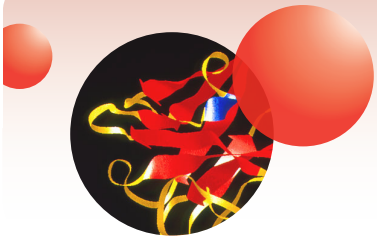


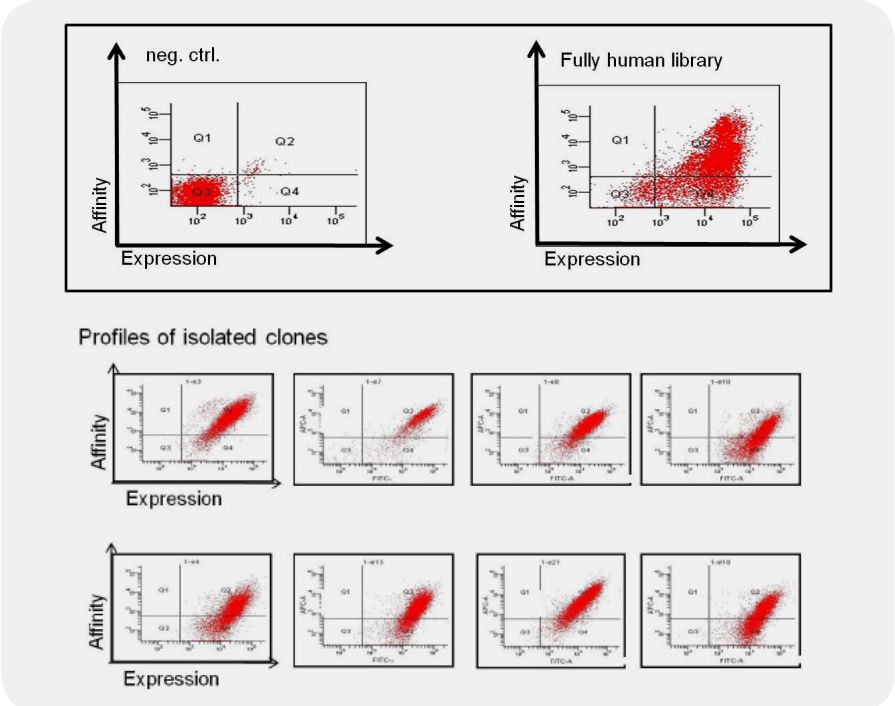
GigaMab™ Fully Human Library

We have constructed and validated a human full length IgG library (GigaMab™ Fully Human library) one of the largest numbers of high diversity fully human antibodies expressed in mammalian cells. Using our proprietary bioinformatic analysis tools and rational design strategies, we have been able to maximize the combinatorial diversity of human immunoglobulin heavy and light chains in our library to allow generation of both high affinity and multi-epitope antibodies.

Since we express our library in mammalian cells, we are able to bypass many problems encountered with many of the traditional techniques used in antibody engineering. The issues associated with using phage, yeast and ribosomal display methods include lack of proper protein folding, post-translational modifications, sub-optimal codon usage and finally the inability to efficiently transfer the antibody candidates into mammalian expression systems to produce therapeutic antibodies (see *CIAO!*™).

We have optimized our high throughput FACS and panning screening process, as well as our validation process to increase the likelihood of identifying high expressing human antibodies with correct epitope recognition, high selectivity and the desired function.

RESULTS / DATA



Our fully human antibody library platform provides a mammalian cell environment for antibody selection and affinity maturation, coupled with a rapid and robust screening process resulting in a process superior to other human antibody technologies (see CIAO!™).

BENEFITS

Mammalian Cell Display system (>10,000 copies per cell)

Full-length antibodies expressed in mammalian cells

No artificial sequences; high diversity

No phage display

Rapid program for fully human antibody generation - 4-5 months including initial characterization of hits

Simultaneous selection for binding and mammalian cell expression

BioAcceleration™ for protein therapeutics

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