

B CELL CLONING WITH BEACON®

At ChemPartner, as the first CRO adopter of the Beacon® Optofluidic System, we take immense pride in providing faster and unparalleled single-cell cloning solutions through this revolutionary technology. Our commitment to excellence and our dedication to optimizing the antibody discovery and antibody generation process sets us apart in the industry.

The Beacon® system has revolutionized single-cell cloning, but its success hinges on the expertise of the team operating it. Our highly experienced and skilled scientists form the backbone of our success because the intricacies of the single-cell antibody discovery process demand meticulous attention to detail.

Without optimized reagents, assays, and processes, the final run risks failure. This is why our team invests significant effort upfront to maximize success rates. We understand that precision and accuracy are paramount to delivering top-notch results to our clients.



5
DEDICATED
BEACON® EXPERTS

3
ANIMAL SPECIES FOR
ANTIBODY DISCOVERY

11
PUBLICATIONS
USING BEACON®

36,000
COMBINED
TRAINING HOURS

B CELL CLONING ON THE BEACON® PLATFORM

ACCELERATE ANTIBODY DISCOVERY WORKFLOW

Typical Hybridoma Workflow



Beacon® Workflow



- Reduce antibody screening time from 8-12 weeks to one day while interrogating more of the immune repertoire
- Potential to immunize WT or transgenic strains of mice
- Identify plasma B cells from immunized mice with target specific binding and functional activity
- Demonstrated functional blocking of receptor/ligand interactions using PD-L1/PD-1 as test case
- Additional assays such as Ca Flux, cytokine secretion and T cell activation are under development
- Good rate of recovery of single VH/VL sequences from successfully exported plasma B cells

LEARN MORE AT [HTTPS://CHEMPARTNER.COM/ANTIBODY-GENERATION-BEACON-OPTOFLUIDIC/](https://chempartner.com/antibody-generation-beacon-optofluidic/)