

ADC Discovery Service

One-stop solution from target to preclinical candidates (PCC)
High-throughput internalization assay screening with antibodies supernatant

Antibody-Drug Conjugates (ADCs) are a class of targeted cancer therapies that combine the specificity of monoclonal antibodies with the potency of cytotoxic drugs. ADCs work by binding to specific antigens on cancer cells and delivering the attached cytotoxic drug directly into the cancer cell, resulting in selective killing of cancer cells while sparing healthy cells. Over the years, significant research efforts have been devoted to improving the efficacy and safety of ADCs, leading to a range of novel ADC designs and optimization strategies.

With 19 years of experience in antibody drug discovery, GenScript ProBio **offers one-stop ADC discovery services** to accelerate customers' R&D speed **from target to preclinical candidate(PCC)**, and seize the hottest development track.



Balancing Functionality And Safety

- High-throughput internalization assay screening with antibodies supernatant
- Conduct pharmacology studies before antibody humanization to evaluate efficacy and safety



One-stop ADC Discovery Solution

- Diverse antibody discovery technical campaigns
- **100+** ready-to-use payload-linker conjugates
- **7 types** of ADC bioassay methods
- **One-stop in vivo pharmacology** solution for ADC

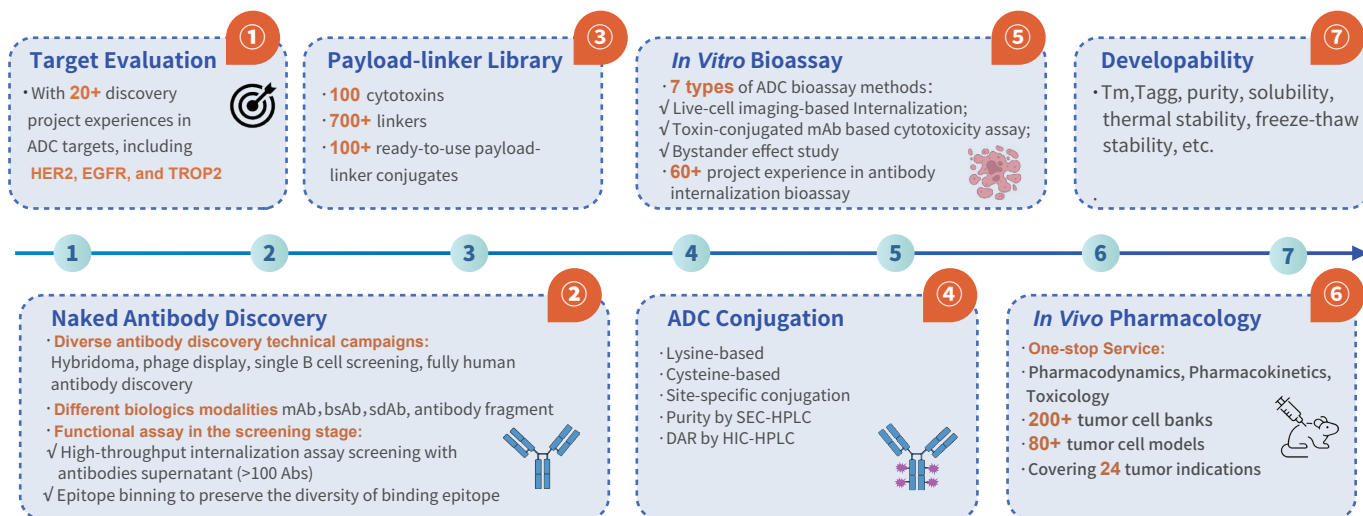


Excellent Track Record

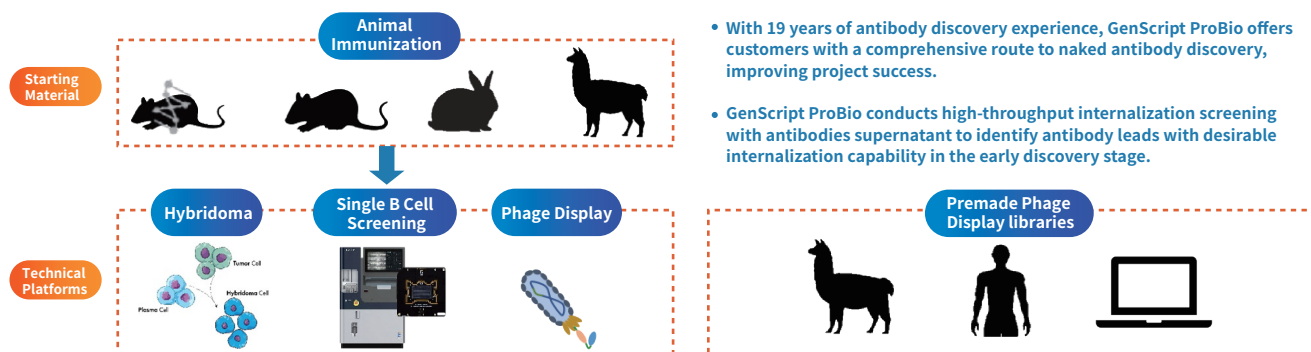
- **20+** discovery project experiences in ADC targets
- **50+** ADC naked antibody discovery project experience
- **50+** ADC bioassay project experience

By Feb.2023

From Targets To Preclinical Candidate Molecules



Naked Antibody Discovery Platform



In Vitro Bioassay Platform for ADC

GenScript ProBio offers 7 diversified ADC detection methods to provide customers with diverse, efficient, and stable ADC bioassay platforms. In addition to traditional internalization detection based on pH probes and cell surface secondary antibody tracking, ProBio has upgraded ADC internalization detection schemes, providing **toxin-conjugated mAb based cytotoxicity assay** applicable for hybridoma supernatant screening and **live-cell imaging based internalization**. ProBio can also provide customers with **bystander effect experiments** to evaluate ADC efficacy and potential risks.

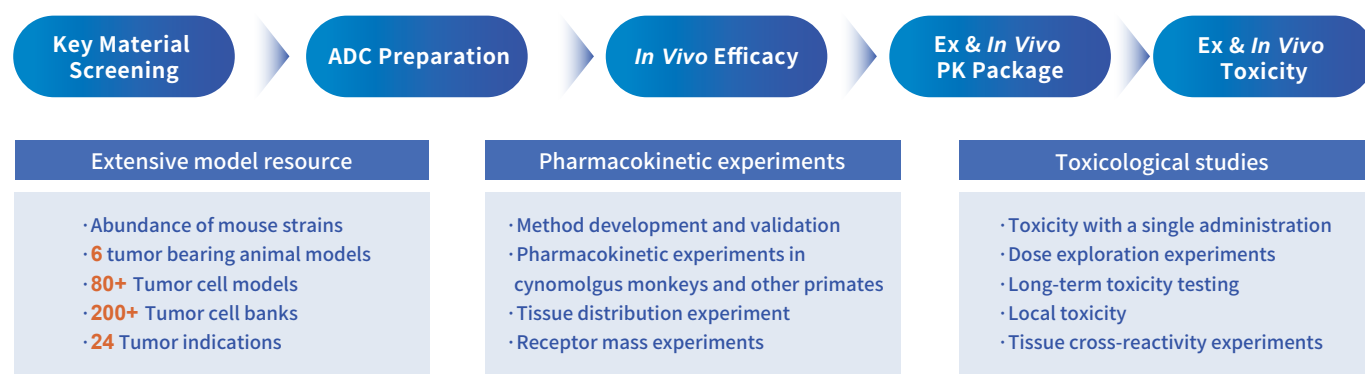
| Scope | Internalization assay | | | | Cytotoxicity assay | | Bystander effect |
|---------------------|---|---|--------------------|------------------------------------|---|---------------------------------------|--|
| Cell based assay | Live-cell imaging based internalization 📷 | Toxin-conjugated mAb based cytotoxicity assay | | pH-Indicator based internalization | Temperature shift based internalization | Cell growth inhibition assay | Medium transfer assay |
| General designation | Incucyte | DT3C | FabFc-ZAP | pHrodo | Temperature shift | Cytotoxicity assay | Bystander effect |
| Molecule | Naked antibody | | | | | ADC or toxin | ADC |
| Analyzer | Live-cell analyzer | Microplate reader | | FACS | FACS | Microplate reader/ Live-cell analyzer | Microplate reader |
| Feature | Real-time and kinetics analysis 🌟 | High sensitivity High throughput close to the cytotoxic MOA | | Specific | Cost-effective Susceptible to multiple factors | High throughput | Simultaneous detection: Ag+ cell cytotoxicity and ag- bystander effect |
| Application | Most versatile Best choice 📌 | Full range Cost-effective Alternative choice 📌 | High material cost | Client favor | For clients with limited budget | Full range | Bystander effect potential security |

- 80+ positive reference antibody dose-response curve (freely available)
- Target cells 200+ tumor cell lines and 100+ overexpression cell lines were provided free of charge

In Vivo Pharmacology for ADC

ProBio offers a range of *in vivo* pharmacology service, including animal-based *in vivo* efficacy, pharmacokinetics, toxicology research, and biomarker-based detection, to meet the compliance requirements for new drug applications, and help you achieve faster, better, and more cost-effective new drug development.

One-stop ADC in vivo pharmacology solution



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