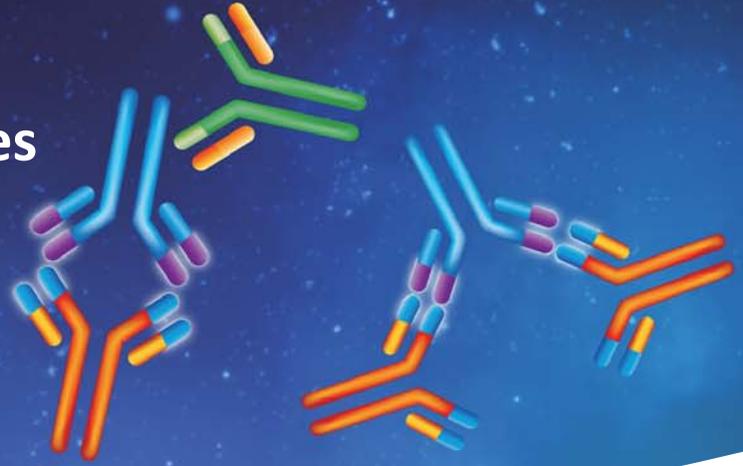


# Anti-idiotype Antibody Services

- High specificity & affinity
- One-stop downstream assay development
- Proven track record – with **100%** success rate



Anti-idiotype (Anti-ID) antibody is a powerful tool for antibody drug pharmacokinetics (PK), pharmacodynamics (PD) and immunogenicity studies. GenScript has extensive experience in developing highly sensitive and highly specific anti-idiotypic antibodies to support your antibody drug development. Our scientists utilize our proprietary technologies to ensure the high specificity and affinity of anti-idiotypic antibody, including special adjuvant and immune mediators, super-sensitive hybridoma screening, and optimal clone selection processes. We have accomplished 100% success rate of anti-ID antibody development for our clients.

## Key Features of GenScript Anti-ID Platform:

- ✓ High specificity and high affinity
- ✓ High speed production: 2-3 months
- ✓ Antigen ligand blocking, epitope binning, and antibody pairing
- ✓ Anti-ID polyclonal antibody packages (rabbit & goat)
- ✓ Anti-ID monoclonal antibody packages (mouse & rat)
- ✓ Proven track record: 100% success rate
- ✓ PK and IR assay development

## Anti-ID Antibody Development Workflow



Anti-Idiotypic Antibody Packages		
Services	Anti-idiotype mAb (SC1184)	Anti-idiotype pAb (SC1185)
Starting material	Target antibody drug 2-3 mg	Target antibody drug 20 mg or more
QC	Cross-reactivity with control IgG <10%	Cross-reactivity with control IgG <10%
Deliverables	Hybridoma cell lines, supernatants and purified anti-ID antibody (optional)	0.5-3 mg purified anti-ID antibody/rabbit

## Successful Case Studies Demonstrating GenScript's Anti-idiotypic Antibody Quality

1. Anti-ID mAb specifically bound to idiotype Ab, but not other negative controls

Clones	Antibody drug	Human IgG1	Normal IgG	Human serum
No.1	2.632	0.086	0.285	0.124
No.2	2.69	0.19	0.186	0.285
No.3	1.576	0.094	0.084	0.253
No.4	2.133	0.21	0.085	0.111
No.5	2.469	0.093	0.116	0.483
No.6	2.546	0.122	0.091	0.176
No.7	1.803	0.084	0.153	0.311
No.8	2.149	0.09	0.081	0.133
No.9	2.498	0.094	0.182	0.082
No.10	2.399	0.195	0.084	0.195

Figure 1: Final sub-clones with high specificity to humanized Ab when screened against different counter screenings.

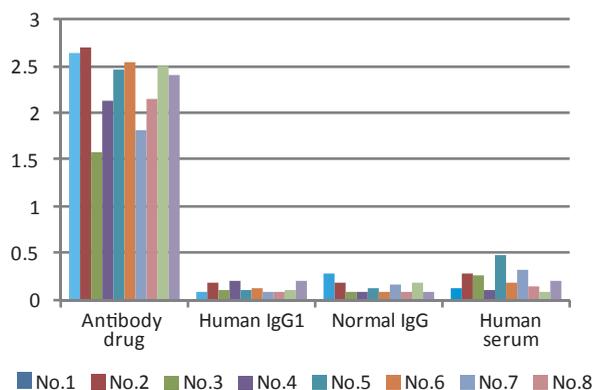


Figure 2: Final sub-clones with high specificity to humanized Ab when screened against isotype control, normal human IgG and human serum.

2. GenScript generated high affinity anti-idiotypic antibody with sub-nanomolar level

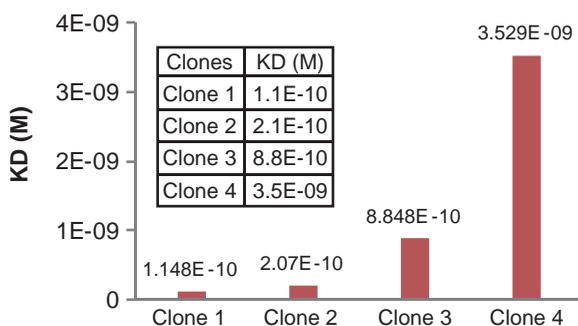


Figure 3: Affinity Ranking of antibodies by using BIAcore; clones with sub-nM affinity

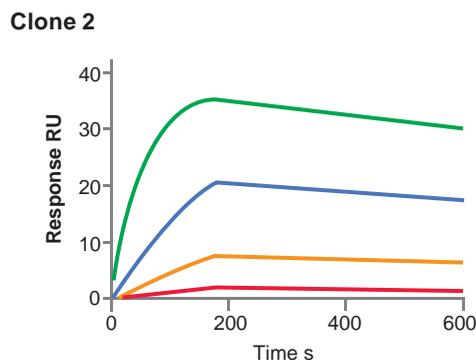


Figure 4: Affinity determination of Clone 2 antibodies by using BIAcore

3. Specific inhibition of anti-idiotypic mAbs in an antigen ligand blocking assay

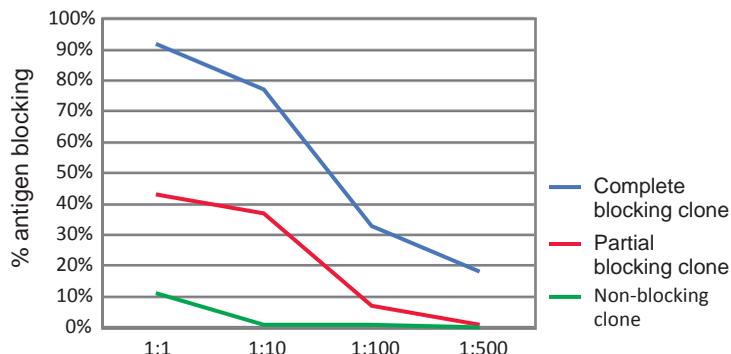
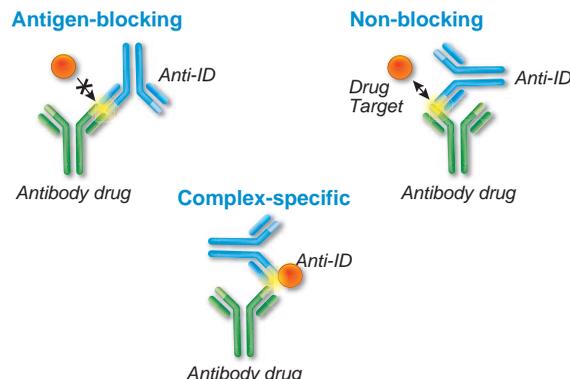


Figure 5: Specific inhibition of anti-Idiotypic mAbs in an antigen ligand blocking assay.



For more information on anti-idiotypic antibody services, visit <http://www.genscript.com/anti-idiotypic-antibody.html> or contact our customer service representatives at 1-877-436-7274.