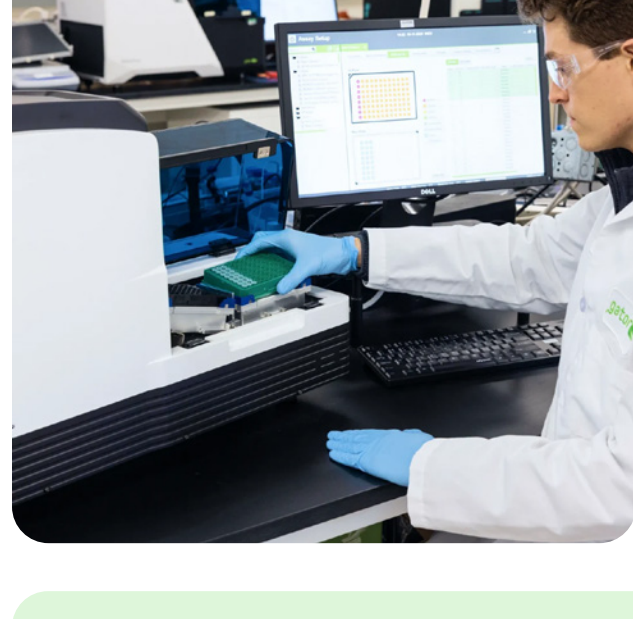


First AI-Designed BLI Probes Revolutionize HIS-Tag Analysis

Unlocking new possibilities for antibody discovery

For decades, scientists have relied upon conventional tools such as biolayer interferometry (BLI) mouse antibody HIS-tag capture probes to assist antibody discovery.



Fundamental challenges of this approach, however, limit the utility of conventional BLI binding probes for broader applications.

These include:

- Baseline drift
- Low signal resolution
- Poor-quality data for low concentration binders

A strategic partnership between GatorBio and Monod Bio has brought to life the innovative and powerful NovoBody™ HIS XT probe technology—the first BLI probe to incorporate AI-inspired binding protein design, delivering superior baseline stability, resolution, and specificity.

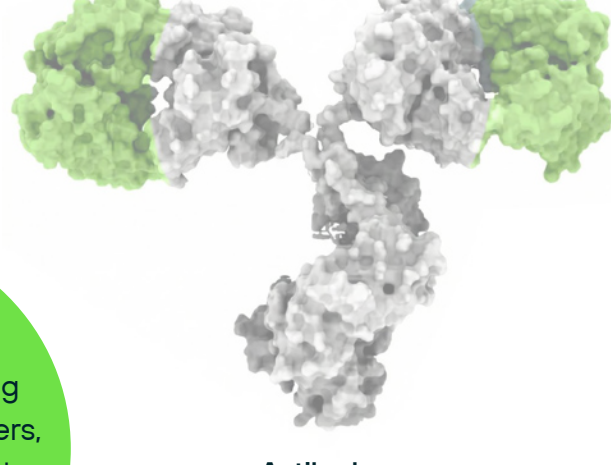
Innovative Design

In traditional BLI, most light at the protein layer scatters – XT biosensors collect more of that light.

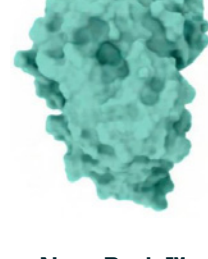
This creates 3x signal per molecule, improving sensitivity for small binders, low titers, and flexibility to use less sample to avoid avidity.

Gator brought those fundamental optical improvements to the most common biosensor: the anti-His biosensor.

Traditional Anti-His antibodies have many shortcomings, including two adjacent binding sites that promote avidity, poor loading speed, and fast off-rate.

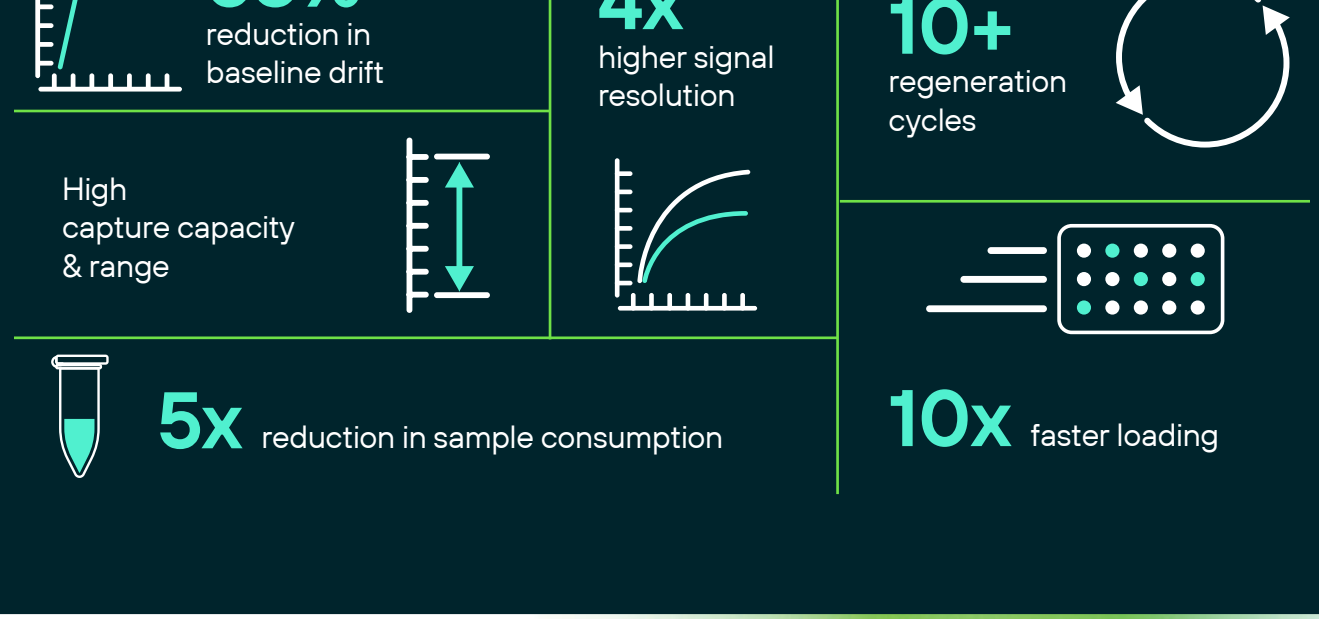


Antibody

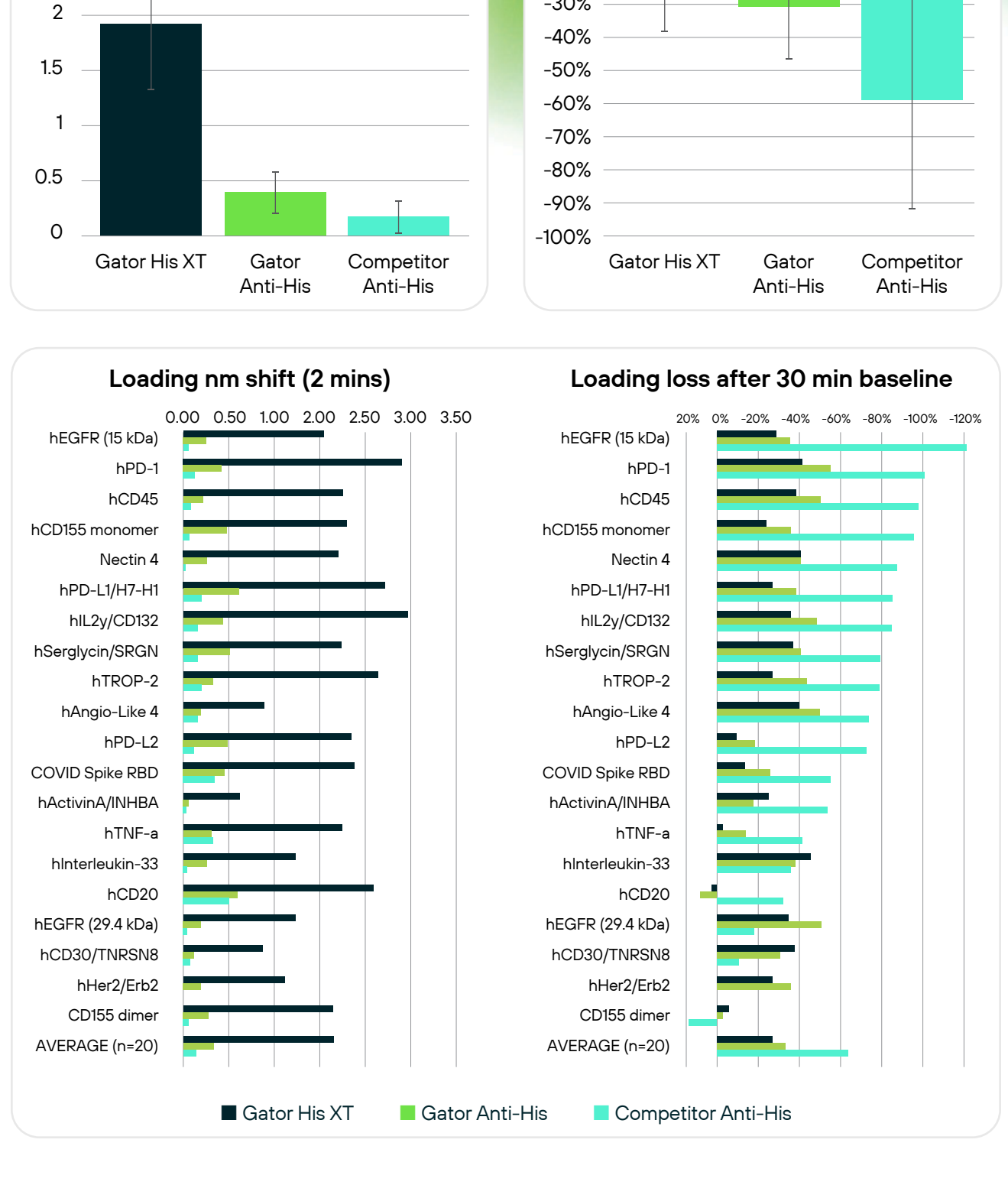


NovoBody™

Gator HIS XT performance compared with traditional antibody-based capture probes.



Gator HIS XT Probe Performance Data



HIS XT Probe Applications

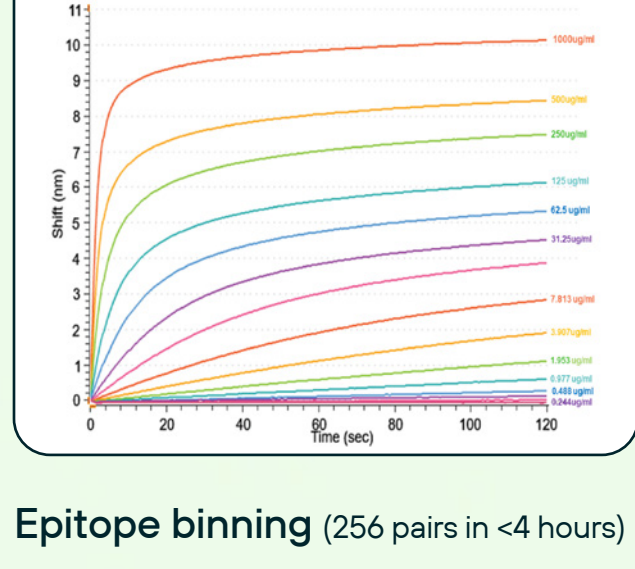
The NovoBody HIS XT is an effective solution for kinetic and equilibrium binding studies, epitope mapping, Fc receptor binding, and additional analysis techniques. The affinity range, loading capacities, and dynamic range make the HIS XT probe ideal for discovery and screening campaigns of varying scales and throughputs. The HIS XT probe can produce exceptional results in Fc receptor binding as demonstrated in the data below and the recent [application note](#).

Steps for the BLI Assay



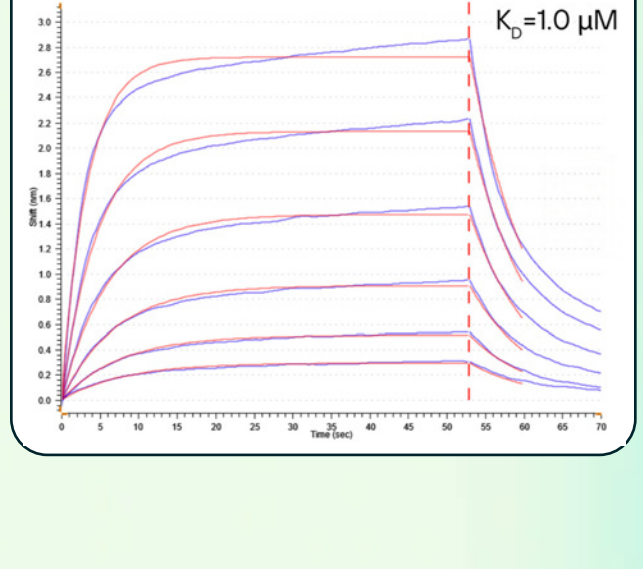
Quantitation

(0.2-1000 µg/mL range)

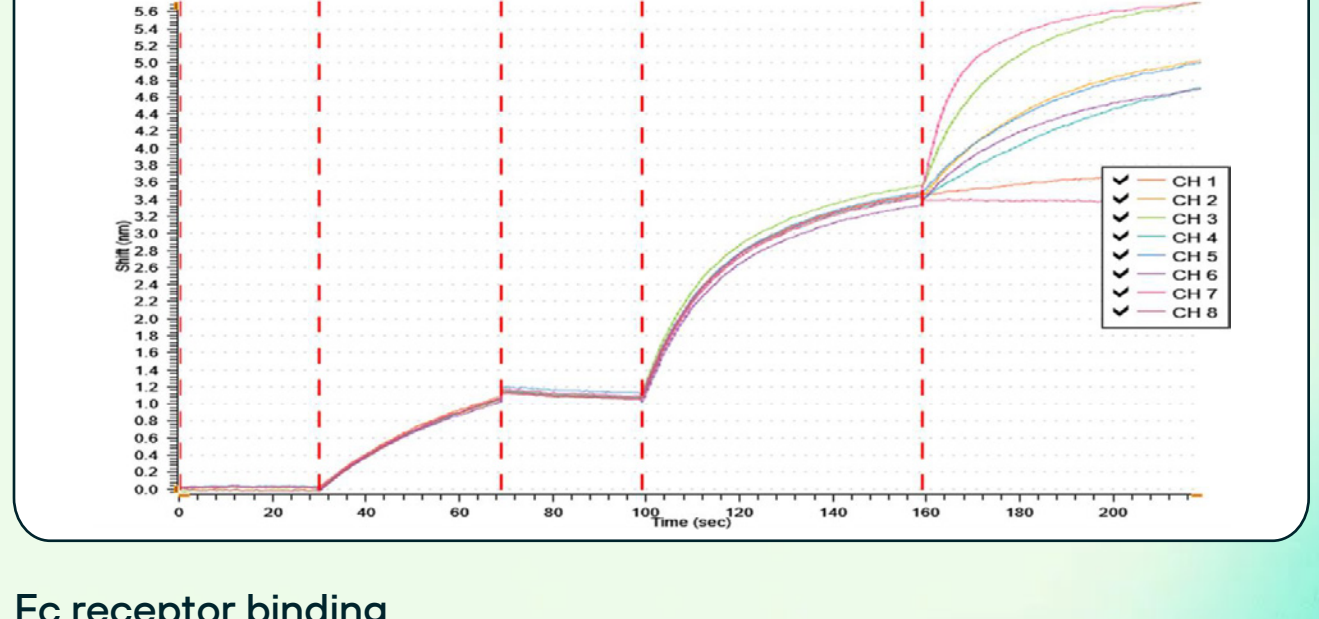


Kinetic characterization

(pM to µM affinities)

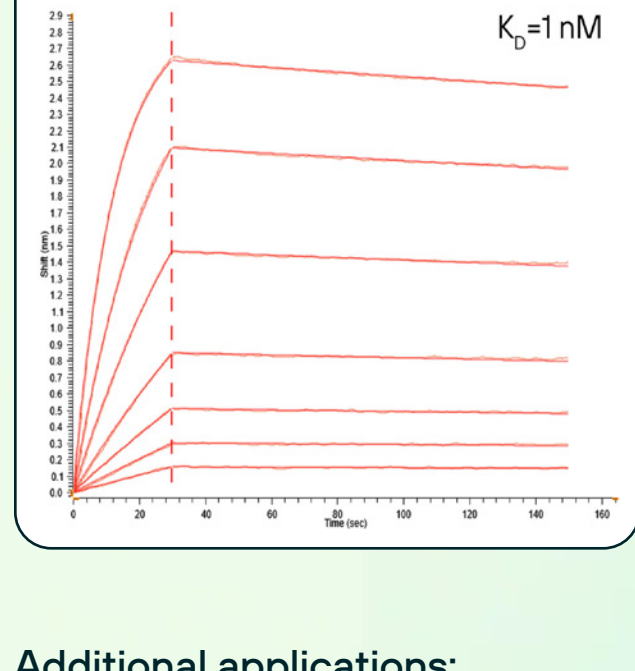
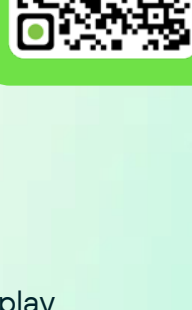


Epitope binning (256 pairs in <4 hours)



Fc receptor binding

(no interference)

Explore more Fc receptor binding data in the recent application note.

Additional applications:

- ✓ Phage display
- ✓ Yeast display
- ✓ Cell-free screening

Learn more about the HIS XT Probe or request a free sample.

gatorbio.com