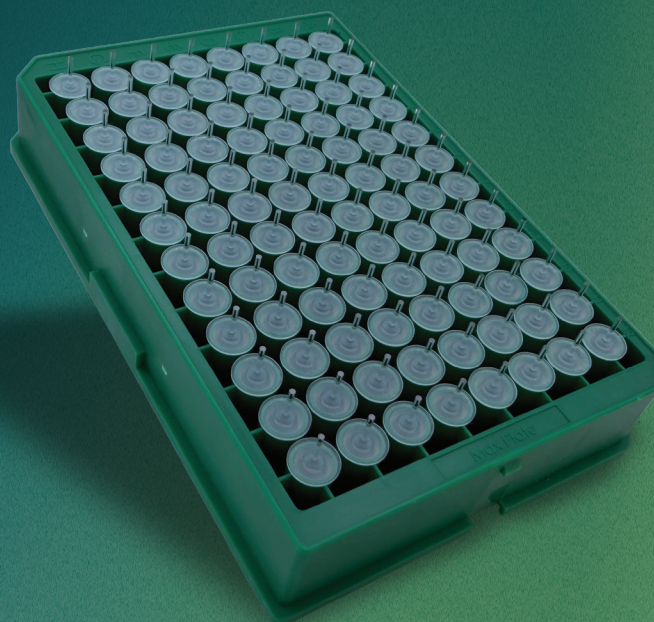


GATOR BIO BIOSENSORS

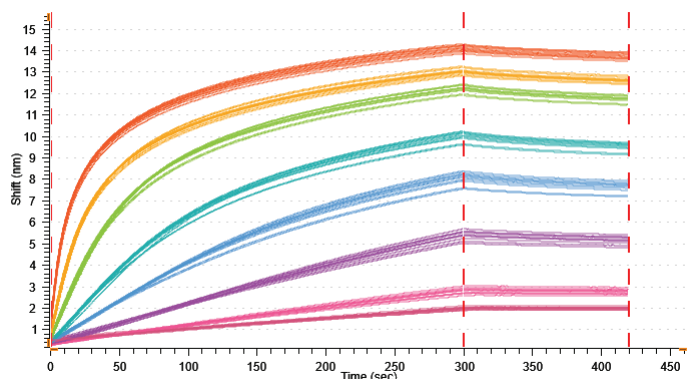
RSA Probes

The first regenerable streptavidin biosensor



Streptavidin biosensors have always been one-and-done. Load your biotinylated target, run the interaction, discard the probe. Gator® Bio's Regen SA (RSA) probes change that. Built on an engineered streptavidin, RSA uses a standard regeneration workflow with the reagents provided in the kit, so a single probe measures up to 10 interactions. Paired with Gator Bio's XT optics, RSA delivers up to 4x higher signal and cuts cost per interaction by up to 8x versus non-reusable SA sensors.

Consistent recapture across a high dynamic range



10 recapture cycles of hlgG labeled with biotin-LC-LC on RSA probes at concentrations of 0.625 - 80 µg/mL demonstrating 1.3-5.8% CV on signal loading with 90-110% recovery across all concentrations.

Product Information

Product Name: Gator Regen SA (RSA) Kit

Product #: 350009

Description: Complete kit containing one tray of 96 Regen SA (RSA) Probes (PN: 160051), and Regeneration Solution for RSA (PN: 120103). Trial kits available upon request

Key Performance Advantages



Reuse for up to 10 recapture cycles with consistent loading height performance ≤ 6% CV



Decrease cost per interaction by up to 8x compared to non-reusable streptavidin biosensors



Screen up to 960 interactions per tray of 96 RSA probes



Up to 4x higher signal compared to standard streptavidin sensors

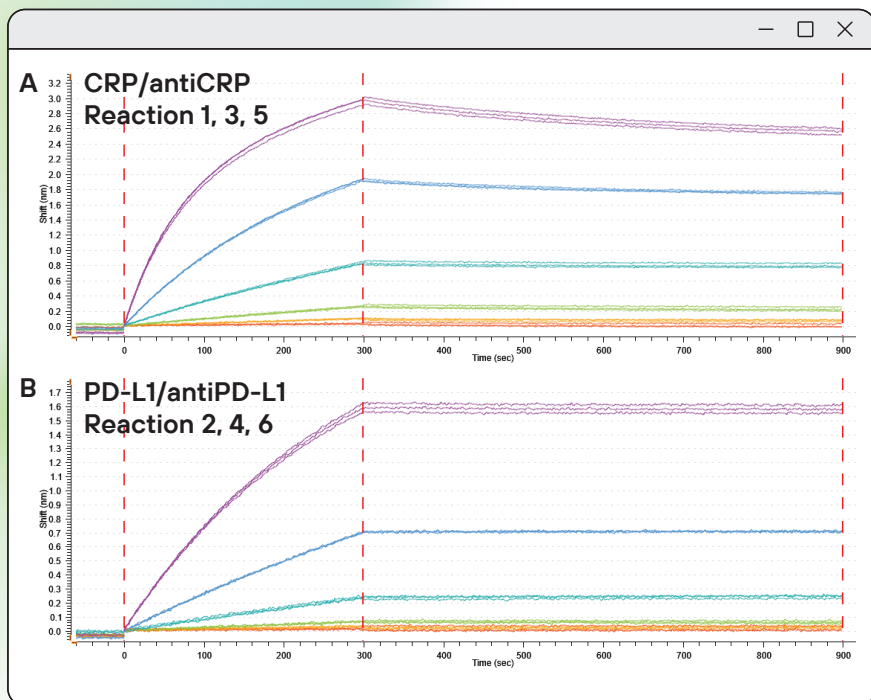


Uses a standard regeneration workflow with the kit's regeneration reagent, maximizing throughput



Convenient kit provides all required regeneration reagents and protocols

Capture and screen multiple biotinylated samples with a single reusable biosensor.

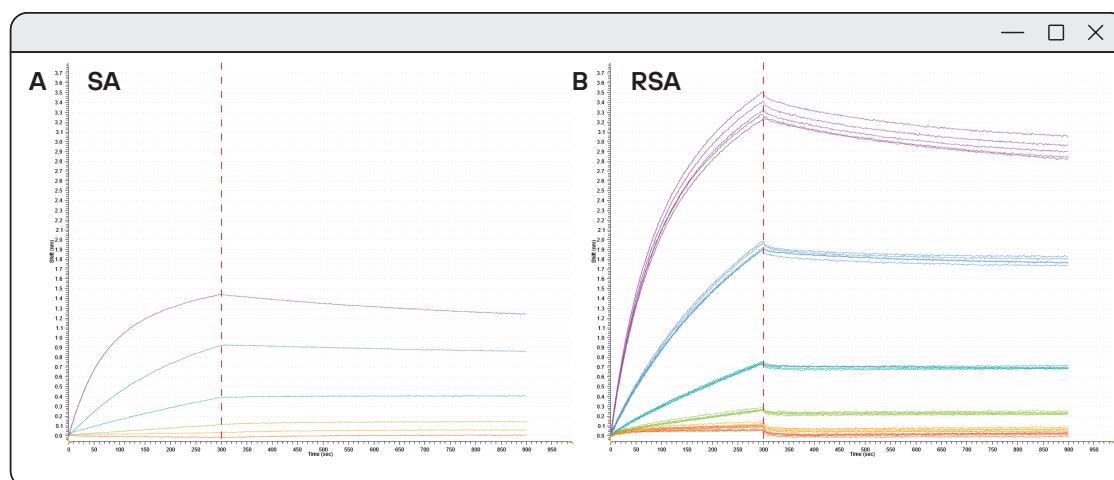


CRP/antiCRP	K_D (M)
Reaction 1	1.75 E-10
Reaction 3	1.78 E-10
Reaction 5	1.77 E-10
Average	1.77 E-10
STD	1.73 E-12

PD-L1/antiPD-L1	K_D (M)
Reaction 2	1.21 E-10
Reaction 4	1.29 E-10
Reaction 6	9.52 E-11
Average	1.15 E-10
STD	1.76 E-11

Kinetic characterization of biotinylated CRP and PD-L1 with their respective antibodies on the same set of RSA probes with alternating recapture cycles. Interactions of (A) CRP/antiCRP and (B) PD-L1/antiPD-L1 using concentrations of 10 nM to 0.04 nM using 3-fold dilutions across all probes.

Up to 4x higher signal enabled by XT optics technology compared to SA probes.



	SA	RSA
10 nM CRP Analyte Signal Height (nm)	1.4	3.4

Comparison of signal height for CRP/antiCRP kinetics interaction on (A) SA probes and (B) RSA probes. Biotinylated CRP was loaded at a concentration of 2 μ g/mL for 60 sec on both probe types.

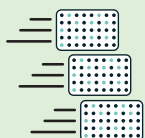
Kinetics



Measure K_D 1E-6 M to 1E-10 M with confidence

Aptamers, RNA/DNA, peptides, proteins, antibodies and more

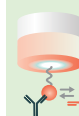
High-Throughput Screening



Screen up to 10 samples per probe

96/384 Well Plate formats available

Epitope Binning



Epitope-accessible capture

Clean competition readouts

Get in touch with us

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info@gatorbio.com

PHONE
1-855-208-0743

Visit the Gator Bio Shop to order now

