TWIST BIOSCIENCE

Twist Bioscience Express Screening Antibodies

From AI-designed sequence to functional antibody in as few as 5 business days

Why Express Screening

Screen more designs per round

Generate SPR data from just 5 to 15 µg per construct, making it financially viable to triage thousands of AI-designed sequences.

Shorten every DBTL cycle

Delivery in as few as 5 business days keeps your design, build, and test cycles moving on your program's schedule.

Test the real molecule

Cell-free expression returns full-length IgG whose affinity tracks mammalian reference material in matched SPR concordence studies.

One workflow, any format

IgG1, scFv-Fc, and VHH-Fc run through the same workflow, so you can move between formats without switching vendors.

No handoffs

One integrated workflow from linear gene fragment to SPR data, so results come back ready to inform your next round of designs.

twistbioscience.com/antibody-discovery/antibody-production-and-characterization

Turnaround time (TAT) is defined as the period from order submission to delivery, in business days (BD): HEK293 8–11 BD, CHO 11–14 BD, Cell-free 5 BD. Stated times reflect the fastest available configuration; actual TAT varies with format, order size and sequence complexity. All pricing in USD.

Yield performance

In a 48-construct IgG panel run in replicate wells, within construct yield varied by 10% to 26% CV **(Figure 1).** Purified yield was measured well by well across a 48-well IgG1 panel, averaging ~20 µg per 100 µL reaction. Average yield covers SPR, which needs just 5 to 15 µg per construct.

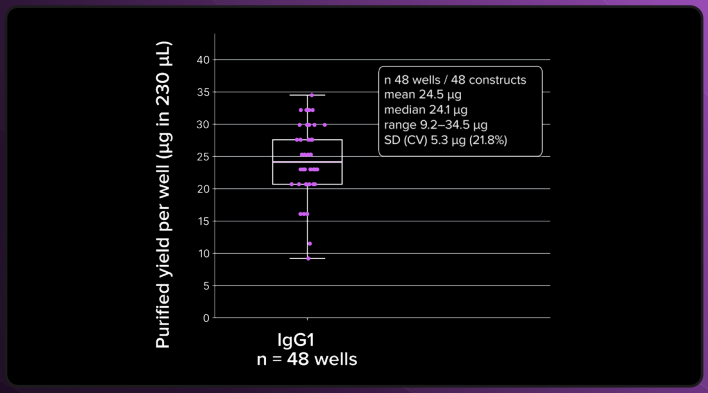


Figure 1

Per-well purified yield across the IgG1 benchmark panel, 48 wells. Mean 24.5 µg, median 24.1 µg, range 9.2 to 34.5 µg, SD 5.3 µg (21.8% CV).

Cell-free affinity that tracks mammalian

To test whether cell-free IgG gives a comparable binding answer to mammalian-expressed material, we ran matched SPR comparisons against HEK293-derived reference antibodies. Across eight antibodies, seven of eight cell-free KDs fell within threefold of the HEK293 values **(Figure 2).**

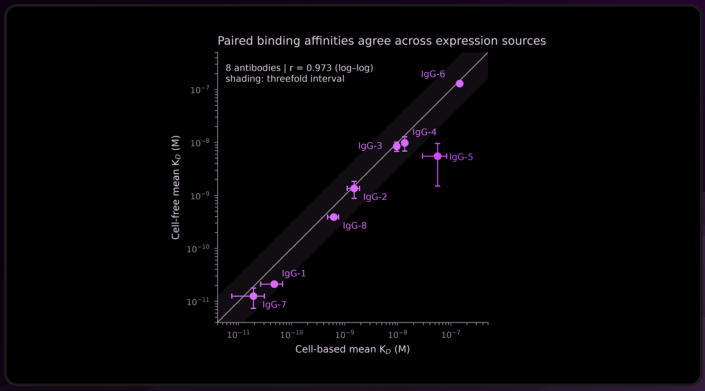


Figure 2

SPR affinity bridging study: cell-free-expressed IgG vs HEK293-expressed IgG reference, log–log scale. Arithmetic-mean KDs were correlated at Pearson r = 0.973. Seven of eight cell-free KDs were within threefold of the HEK293 values. N = 3 per measurement.

Built for AI-driven discovery

Triage thousands of AI-designed sequences with screening-grade, full-length IgG in as few as 5 business days, starting at $88 per variant. Move your best hits into HEK or CHO when you're ready to go deeper.

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