

Antibody-Antigen Interaction & Binding Kinetics Analysis via SPR

Through next generation protein sequencing, Rapid Novor enables reliable discovery and development of novel reagents, diagnostics, and therapeutics.

Surface Plasmon Resonance services can determine the binding affinity, on-rate and off-rate (K_{on} , K_{off} and KD) for antibody-antigen interaction. Full kinetic profiling using our expertise in SPR for antibodies.

- Unmatched accuracy and reproducibility
- Responsive – no wait time, answers in 2 weeks
- Low sample volume requirement
- Full kinetic profile from antibody experts

SPR Analysis Workflow

Our method for label free evaluation of antibody-antigen binding relies on a Surface Plasmon Resonance technology from Nicoya called OpenSPR. This nanotechnology-based SPR platform enables immobilization of binding partners in both orientations with low levels for bulk shift even in most complex buffers. Combined with our expertise in antibody interactions, these results in high sensitivity and the lowest noise even in complex analytes.

Compared to ELISA, BLI and label-based approaches for examining binding, SPR has advantages:

- Highest quality measurement of binding kinetics, under realistic conditions
- Flow through, so re-binding events not an issue
- Label free (so not limited by labeling efficiency, specificity, etc.)
- Small sample volume
- High sensitivity
- Can be high throughput
- Real time: ideal for measuring fast on and off rates, deeper insights
- Highly replicable and reproducible

✓ **Unmatched SPR Accuracy and Reproducibility**

✓ **Expert Analysis and Deeper Insights.**

✓ **Complex SPR and Difficult Samples.**

Sample Requirements:

- Antibody (100 µg, >90% purity, monoclonal)
- Antigen (at least 100 ug, >90% purity)
- Any standard buffer. Inquire about serum analysis.

