

[Technologies](#)

Surface Plasmon Resonance (SPR)

Label-free, real-time binding kinetics and affinity measurements

SPR measures biomolecular interactions in real time without labels. Use it to quantify k_{on} , k_{off} , and K_D across a broad affinity range.

What it measures

- Real-time association and dissociation to quantify k_{on} , k_{off} , and K_D
- Label-free readout on sensor chips

When to use

- You need precise kinetics beyond endpoint binding
- Benchmarking or mechanism studies

How we use SPR at Adaptyv

We use the **Carterra LSA XT** for high-throughput SPR measurements. Our typical workflow involves:

- **Protein expression:** User-designed proteins are expressed with a linker and Twin-Strep-Tag
- **Surface capture:** Tagged proteins are immobilized on the sensor chip surface
- **Kinetic analysis:** Real-time binding measurements to determine k_{on} , k_{off} , and K_D values

Ask a question...



This approach allows us to efficiently characterize binding interactions for designed proteins across multiple conditions.

Related pages

- [Binding](#)
- [BLI](#)
- [Binding Data Package](#)

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