

## 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.



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## Related pages

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