

## **EXPERIENCE THE DIFFERENCE.**



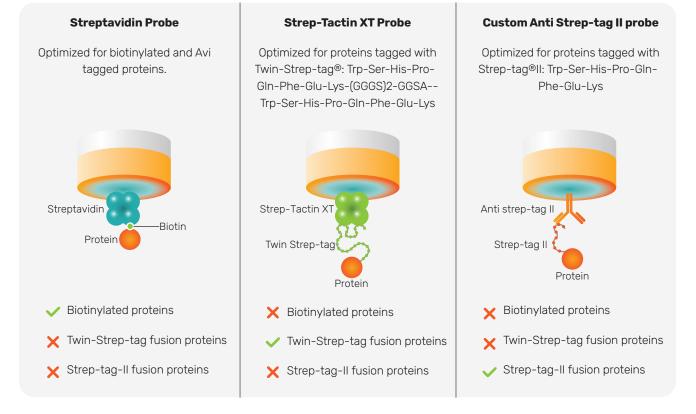


## **Application Note Biosensor selection for proteins tagged** with Strep-tag®II and Twin-Strep-tag®



## Biosensor selection for proteins tagged with Strep-tag<sup>®</sup>II and Twin-Strep-tag<sup>®</sup>

Introduction: Proteins are purified using different types of tags. This guide makes recommendations on selection of right BLI biosensors for quantitation and kinetic analysis of tagged proteins.



Biosensor	Ligand	Target analyte	Affinity
Strep-Tactin XT	Strep-Tactin®XT	Twin Strep-tag fusion proteins	Low pM affinity
Custom Anti strep-tag II	Anti strep-tag II antibody	Strep-tag II fusion proteins	Low nM affinity
SA Probes	Streptavidin	Biotinylated proteins	fM affinity

Note: Streptavidin sensors that are used with biotinylated biomolecules are not suitable for use with Twin-Strep-tag and Strep-tag II fusion proteins. Even though Strep-Tactin has been engineered from Streptavidin, streptavidin itself has a very weak binding to Twin-Strep-tag and Strep-tag II (µM affinity) making it unsuitable for BLI analysis.

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#### **APP NOTE APP-4 Ver-1**

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