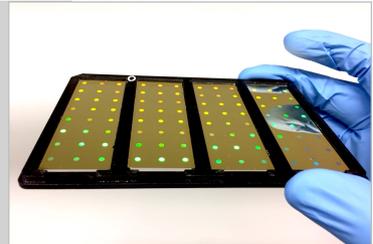


## Protein A Biosensors

*For Whole Molecule Antibody Quantitation*

### KEY FEATURES

- Quantitation of immunoglobulins of various species including human
- Label-free and time efficient ELISA equivalent
- No proprietary instrument, works with standard microplate readers
- Compatible with crude matrices and complex media



### OVERVIEW

Protein A biosensors provide a rapid and direct method for quantitating immunoglobulins of various species, in buffer, conditioned media or complex matrices. Protein A, which is pre-immobilized onto the biosensor, strongly binds to the Fc region of most IgGs. Optimal binding to the recombinant Protein A immobilized on the biosensor occurs at pH 8.2, but is also effective at neutral pH.

### QUICK FACTS

**Typical dynamic range for (rabbit) IgG:**

0.3–30 µg/mL

**Throughput:** Up to 96 samples < 60 minutes

**Sample volume:** 20–50 µL/well

**Precision:** < 10% CVs

**Supported microplate readers:**

Tecan Spark

Tecan Infinite M200 Pro

Biotek Synergy Neo2

Thermo Fisher Scientific Multiskan GO

**Software:**

PLASMON for data acquisition and evaluation

### PRINCIPLE OF ANTIBODY QUANTITATION

IgG binding to the Protein A biosensor shifts the optical resonance of the nano-structured sensor surface, allowing the binding event to be monitored without labels using a standard microplate reader. Higher antibody concentrations cause more pronounced resonance shifts and the analyte concentration can be extrapolated from a standard curve.

### COST-EFFECTIVE REGENERATION

Protein A biosensors can be regenerated using a standard low-pH protocol. Dissociation of the bound antibody from the Protein A biosensor allows additional analyses and provides a cost-effective format for analysing large sample libraries.

### ORDERING INFORMATION

Part No.	Description
02-0001	1 Protein A functionalized biosensor with 24 datapoint (wells attached)
02-0002	Pack of 4 Protein A functionalized biosensors (96 datapoints in total)
02-0003	Starter kit (PLASMON license, holder for 4 biosensors, pack of 4 Protein A functionalized biosensors)