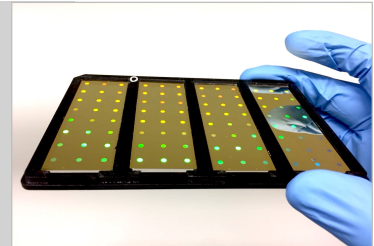


## Protein A Biosensors

*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 allow for rapid and direct quantitation of immunoglobulins of various species, in buffer, conditioned media or complex matrices. The pre-immobilized Protein A 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:**

0.6–37.5 µg/mL

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

**Sample volume:** 20–50 µL/well

**Precision:** < 10% CVs

**Supported microplate readers:**

Monochromator and CCD based models from all major manufacturers. Please inquire if your reader is supported.

**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
0102-01	1 Protein A functionalized biosensor with 24 datapoint (wells attached)
0102-02	Pack of 4 Protein A functionalized biosensors (96 datapoints in total)
0102-03	Starter kit (PLASMON license, holder for 4 biosensors, pack of 4 Protein A functionalized biosensors)