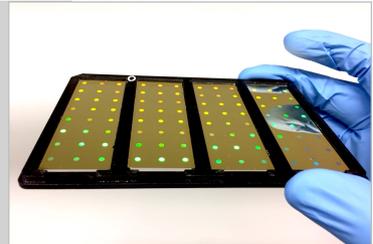


Protein G Biosensors

For Whole Molecule Antibody Quantitation

KEY FEATURES

- Quantitation of IgGs 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 G biosensors allow for rapid and direct quantitation of IgGs of various species, in buffer, conditioned media or complex matrices. The pre-immobilized Protein G strongly binds to the Fc region of most IgGs. It has greater affinity than Protein A for most mammalian IgGs and can therefore be used for the quantitation of mammalian IgGs that do not bind well to Protein A. The recombinant Protein G immobilized on the biosensor exhibits no albumin and cell surface binding domains and can be used to quantitate IgGs from crude samples. Optimal binding occurs at pH 5, 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 G 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 G biosensors can be regenerated using a standard low-pH protocol. Dissociation of the bound antibody from the Protein G biosensor allows additional analyses and provides a cost-effective format for analysing large sample libraries.

ORDERING INFORMATION

Part No.	Description
0103-01	1 Protein G functionalized biosensor with 24 datapoint (wells attached)
0103-02	Pack of 4 Protein G functionalized biosensors (96 datapoints in total)
0103-03	Starter kit (PLASMON license, holder for 4 biosensors, pack of 4 Protein G functionalized biosensors)