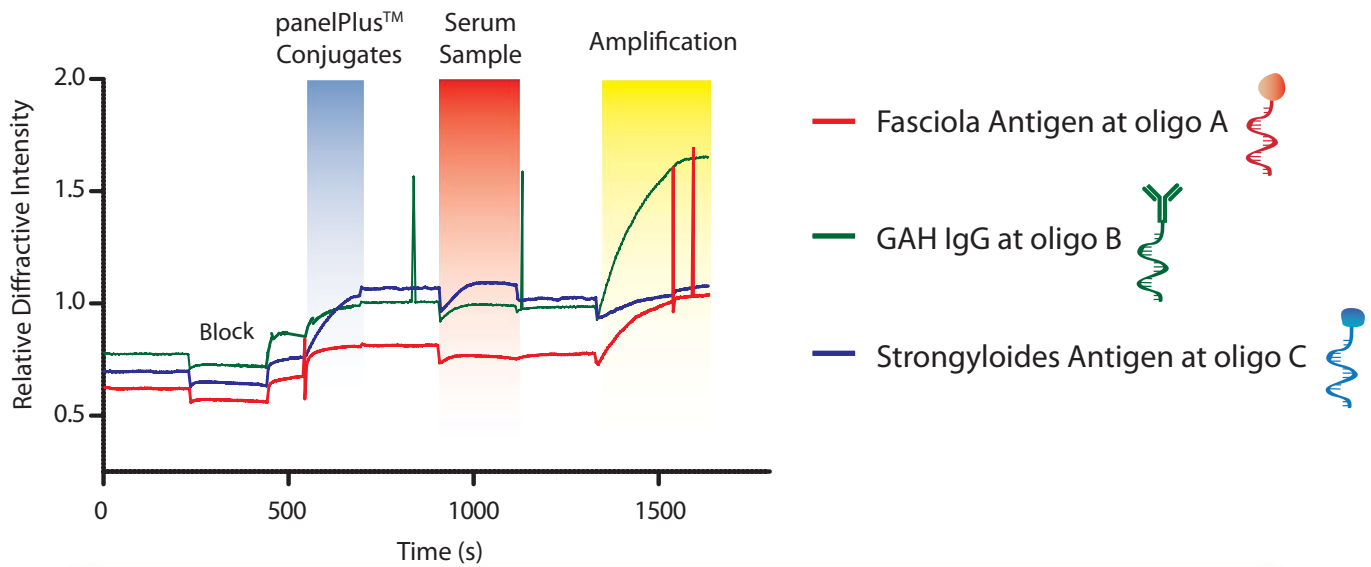


Rapid Triplex Serology Assay on panelPlus™ Sensors

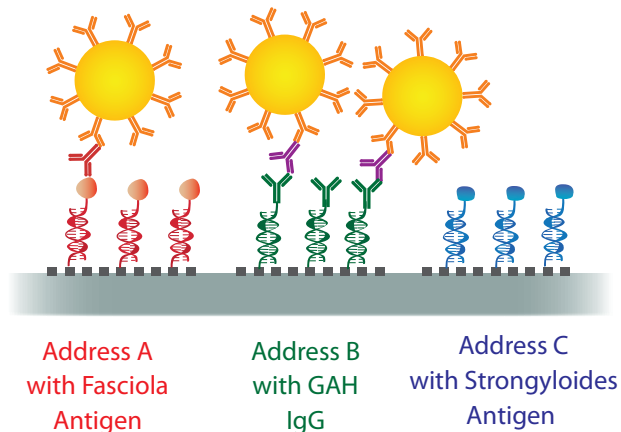
With Axela's panelPlus™ technology, customizable multiplex immunoassays can be easily developed for the serological screening of pathogen-specific antibodies. In the example below, a triplex assay was developed to screen serum for antibodies produced against the pathogens, *Strongyloides stercoralis* and *Fasciola hepatica*. Antigens from both pathogens, along with a Goat anti-Human (GAH) IgG antibody (used as a positive control), were conjugated to unique oligonucleotides that are complementary to those addressed on a triplex diffractive optics sensor. The conjugates were then analysed on the dotLab® mX System with serum known to be positive for Fasciola.



Binding events on the surface of the triplex sensor

Conjugated reagents hybridize to oligonucleotide addresses on the the sensor surface.

Anti-human detector antibodies conjugated to gold nanoparticles bind to human IgG (purple) and Fasciola antibodies (red) in the serum.



Highlights:

- Rapid results (<30 minutes)
- Only 3.5 μ L of serum sample used
- For research purposes, the sensor can be regenerated and re-used multiple times



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mX SYSTEM

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