Anti-Human FAB

Catalog No. 160013

Overview

Gator™ Anti-Human FAB biosensors are useful for the quantitation or kinetic characterization of hIgG antibodies, hIgG F(ab) fragments, or hIgG F(ab')2 fragments and their respective antigens. The proprietary surface chemistry allows for high-capacity immobilization of hIgG antibody or antibody fragments expressing the CH1 domain. Following immobilization, users can quantify hIgG antibody/antibody fragments of interest or determine the k_{on}, k_{off}, and K_D of the binding interaction between hIgG/human antibody fragments and their antigen.

Materials required

Anti-Human FAB	Catalog No. 160013
Max Plate	Catalog No. 130062
Black Plate	Greiner 655209
Q Buffer	Catalog No. 120010
K Buffer	Catalog No. 120011

Storage

Store at room temperature in the foil pouch, ensuring zipper is fully sealed to avoid humidity/ moisture contamination. In high-humidity environments, storage inside a dry cabinet is recommended.

General Applications

Quantitation and/or Kinetic studies of human antibody or human F(ab), or F(ab')2 fragments.

General Methods

Sample Volume

Black Plate: 200 µL (180 µL minimum)
Max Plate: 250 µL (280 µL maximum)

Pre-wet Conditions

250 µL assay buffer in Max Plate
10 min at 1000 rpm

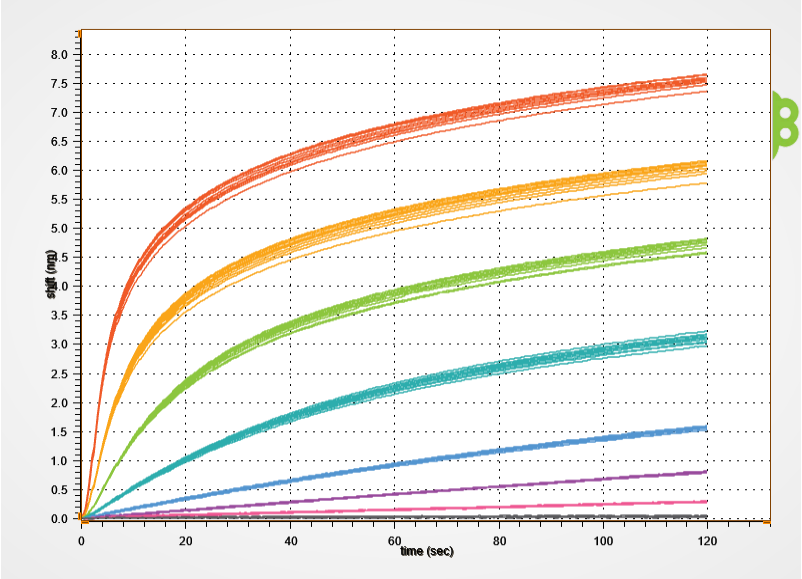

Figure 1: Following a 10 min 1000 rpm pre-wet in our quantitation buffer, hIgG was loaded onto anti-human FAB biosensors over a range of concentrations (0.1 - 3000 µg/mL) for 20 rounds of regenerations.

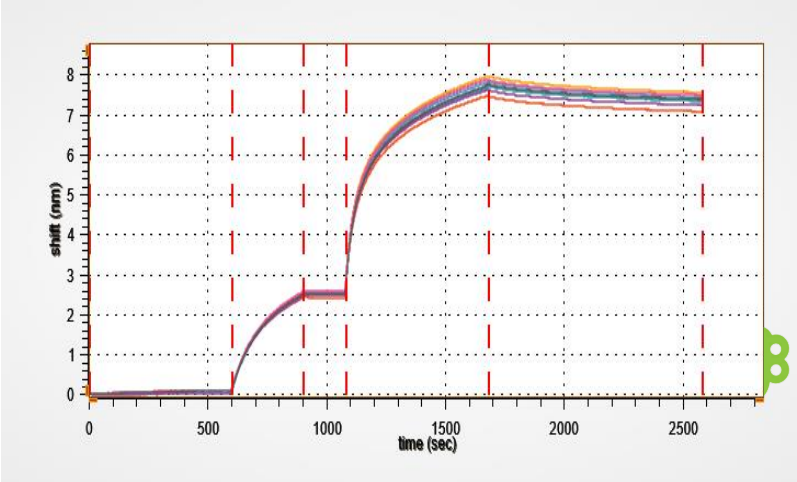

Figure 2: Following pre-wet equilibration (10 min at 1000 rpm) in K Buffer, hIgG was loaded onto anti-human FAB biosensors, then exposed to association and dissociation of 200 nM polyclonal goat anti-human F(ab')2 antibody. Global-fit analysis using Gator Bio™ software for the hIgG binding interaction with anti-hIgG F(ab')2 resulted in K_D = 6.47E-10M.

Tips for Optimal Performance

For the best performance, it is recommended to regenerate the probes using Regeneration Buffer - No Salt (Cat No. 120008) prior to use.

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