

Gator® Anti-VHH Probe for Quantitation and Off-rate Screening of VHH

Gator® Anti-VHH probes are coated with a cocktail of monoclonal antibodies that allow immobilization of VHH (variable Heavy domain of Heavy chain) from multiple camelid species. VHHs are garnering substantial attention for use in therapeutics, diagnostic imaging, and research. The Anti-VHH probe is carefully optimized for quantitation and off-rate screening of VHHs. It is compatible with crude media and can be regenerated up to 10 times bringing down the cost of analysis per sample.

Product information

Part Number

160032

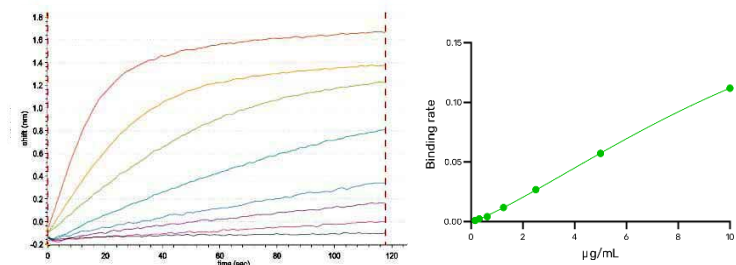
Includes

Anti-VHH Probes (96 probes/tray)

Key benefits

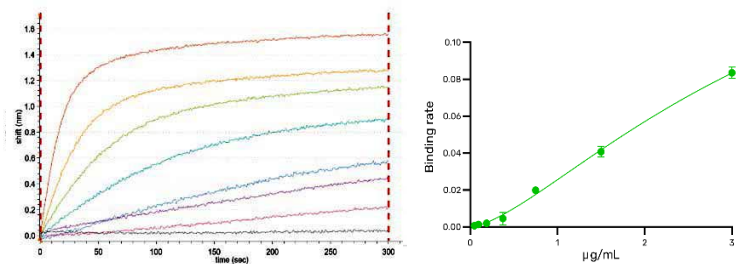
- Direct binding of VHH for quantitation and off-rate screening.
- Recognition of VHH from multiple camelid species.
- Compatible with biological matrices like cell culture media.
- Regenerable up to 10 times.

Quantitation of VHH in buffer Standard protocol



Sensorgram and standard curve for VHH using standard protocols. The standard protocol is run at 200 rpm for 120 sec and can quantify 0.15-10 µg/mL VHH.

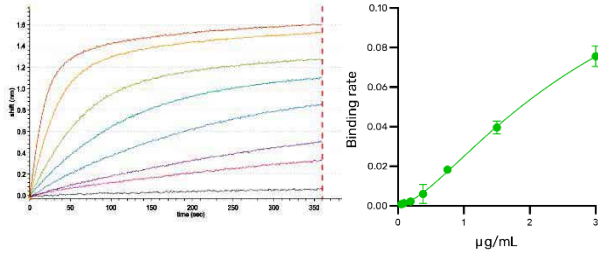
High sensitivity protocol



Sensorgram and standard curve for VHH using high sensitivity protocols. High sensitivity protocol is run at 1000 rpm for 300 sec and can quantify 0.05 -3 µg/mL VHH.

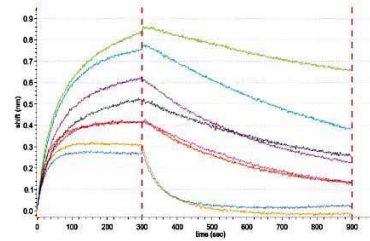
Quantitation in culture media

High sensitivity protocol



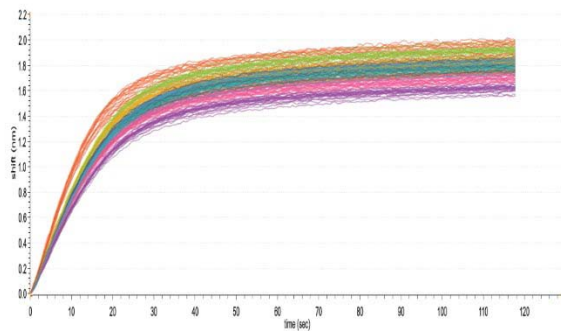
Sensorgram and standard curve for VHH (0.05 to 3 µg/mL) in spent DMEM diluted 100 x in Q buffer, (PN 120010).

Off-rate screening of anti-CD45 VHHs



Association and dissociation of eight anti-CD45 VHHs against CD45, which was loaded at 4µg/mL in K buffer. The k_{off} values ranged from 3.9×10^{-4} to 1.48×10^{-2} .

Regeneration of VHH probe



10 consecutive regenerations of 8 anti-VHH probes. 10 µg/mL of VHH was loaded in Q Buffer. Regeneration was done using Gator Regen buffer (no salt), PN 120063.

Summary

Anti VHH probe is a tool for the quantitation and off-rate screening of camelid single domain antibodies, commonly known as VHH. The probe is capable of:

- Quantitation of VHH in buffers and cell culture media.
- Dynamic range of 0.05 -10 µg/mL depending on the protocol.
- Off-rate screening of VHH against targets proteins/antigens.
- Regeneration up to 10 times using a simple protocol.

