De-risk your sdAbs pipeline with superior selection in physiological conditions.

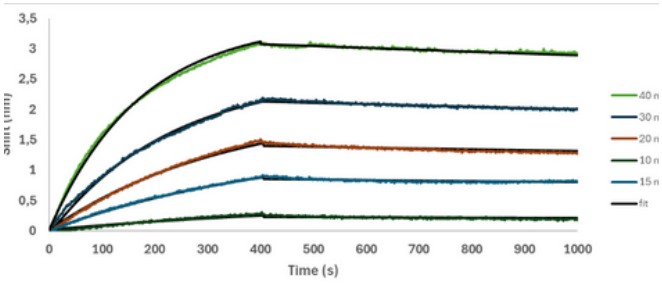
APPNOTE

Kinetic affinity comparison of candidates under actual clinical conditions for more predictive development

Singledomain antibodies (sdAbs) have an improved capacity to penetrate tissues and reach obscured targets, making them powerful alternatives to conventional antibodies as therapeutic, whether it's an inhibiting or neutralising function, or as the high precision binder in CAR-T therapy.
Although these may prove to be better binders overall, in order to correctly choose and monitor the best candidate, crucial kinetic information must be obtained through screening. Vixen's WHITE FOx provides confidence in the selected candidate(s) by correlating the affinity obtained during selection to its affinity in physiological samples, such as whole blood. This enables better prediction of clinical performance in the environment where the antibody's function matters most.

Highlights

- Provides mechanistic insights of kinetics: (k_{on}, k_{off} and k_D)
- Label-free, real-time kinetic characterization.
- Performance **according to industry performance standards** and comparable with other real-time platforms.
- Provides insights **missed by traditional endpoint assays,** such as ELISA**.**
- Helps identify **the best binders for a target or marker.**
- **Early verification** of candidate's affinity **in complex clinical sample**, such as plasma & whole blood.



Kinetic analysis of Anit-Rabbit IgG VHH binding to Rabbit IgG, showing K_{on} of 1,43E+5 (1/Ms) and K_{off} of 1.04E-4 (1/s) for a KD of 7,26E-10 M.

Conclusion

An important factor in the development of sdAbs as therapeutic is screening to select the best binders. Vixen can help by kinetic characterization in native conditions, before animal or human models are applied.

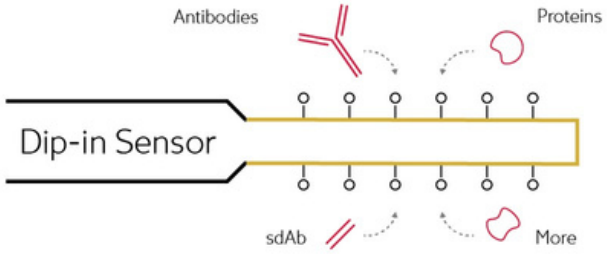
VIXEN BIO



Vixen Bio provides accurate and precise quantitation and kinetic studies of biomolecular interactions with its proprietary device “WHITE FOx”. Our convenient dip-in probe and deep expertise in immunoassays enables us to analyze in complex -clinical- samples, during any stage of (drug-) development.

The advantages of WHITE FOx by Vixen Bio:

- **Label-free direct single interactions** (epitope, Fc, anti-hIgG, proA/G,...)
- **High accuracy and precision**
- **Fast: sample to result in as little as 10 minutes**
- **No fluidics -** No cleaning
  - Minimal sample processing
  - No cross-contamination



Services by Vixen Bio:

- **Real-time kinetics & concentration from any target in any sample**
- **Fast, Sensitive & To industry standards:** highly comparable results with ELISA & other real-time technologies.
- **Flexible:**
  - Samples measured **@ Vixen Bio labs**
  - WHITE FOX **@ your lab**
  - **Fully developed** assays for a variety of biologicals.



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