

Optimized VHH

SELECTION AFFINITY AND TITER BEFORE PURIFICATION



No need for purification when working with VHH.



No need for His- or other tags. Work with native proteins.



Include protein functional performance (Kd) early in the selection process.



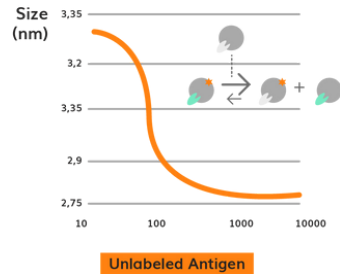
Fully automated process accepting 96 well plates as sample format.

FIDABIO CLONE SELECTION

1

Single point size ranking of VHH clones

The Fida 1 size measurement is resulting from expression levels and affinity combined.



2

Competitive assay on selected clones

Titrating unlabelled antigen into a mixture of unpurified VHH solution and labelled antigen decreases size until the minimum value where all the labeled antigen is free. Size is linked to the fraction of VHH bound, therefore, the affinity and the expression level of VHH are assessed simultaneously.

3

Detailed characterization of best VHH clone(s)

Clone(s) with the best combination of affinity and expression level are produced in larger scale, purified and further characterized.

