AFXXX and ACXXX (antibody identifiers from ABCD database) antibodies recognize (name of the target) by ELISA

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Abstract

The recombinant antibodies AFXXX and ACXXX (ABCD identifiers of the antibodies) detect by ELISA (name of the target).

Introduction (3-15 lines)

Short description of the target. When available, please specify an identifier for the target (e.g. UniProt #P06213). Here, we describe the ability of (ABCD identifiers of the antibodies) to detect (name of the target) by ELISA.

Materials & Methods

**Antibodies:** ABCD\_AFXXX and ABCD\_ACXXX, antibodies (ABCD nomenclature, <http://web.expasy.org/abcd/>) were produced by the Geneva Antibody Facility (<http://unige.ch/medecine/antibodies/>) and produced as minibodies/nanobodies with the antigen-binding scFv (or VHH in the case of nanobodies) portion fused to a rabbit IgG Fc. The synthesized scFv sequences (GeneArt, Invitrogen) correspond to the sequences of the variable regions joined by a peptide linker (GGGGS)3 . HEK293 suspension cells growing in HEK TF medium (Xell #861-0001, Sartorius), supplemented with 0.1% Pluronic F68 (Sigma #P1300), were transiently transfected with the vector coding for the VHH/scFv-Fc of each antibody. Supernatants (~50-80 mg/L) were collected after 4 days.

**Antigen (3-5 lines):** Description of the antigen used in the experiment (peptide, full length protein …)

**Protocol:** The whole procedure was carried out at room temperature. Antigens were immobilized on streptavidin-coated ELISA plates (Pierce #15124) for 30 min. Each well was rinsed three times with 100 μl of washing buffer (PBS + 0.5% (w/v) BSA + 0.05% (w/v) Tween20), then incubated for 1 hour with 50 µl of antibody-containing supernatant diluted in washing buffer (Fig. 1). After rinsing 3 times (100 µl washing buffer), wells were incubated with horseradish peroxidase-coupled goat anti-rabbit IgG (Sigma #A8275, dilution 1:1000, 50 μl per well) for 30 min. After 3 rinses, Tetramethylbenzidine (TMB) substrate (Sigma #T5569) was added (50 μl per well). The reaction was stopped by the addition of 25 μl of 2 M H2SO4. The absorbance (OD) was measured at 450 nm, and the absorbance at 570 nm was subtracted.

Results & Discussion

Antibodies AFXXX and ACXXX bound in a concentration-dependent manner to (name of the target), but not to the negative control (Fig. 1).

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**Fig. 1.** Specific binding of antibodies to name of the target, as detected by ELISA. ‘Control’ indicates the binding of AFXXX to biotinylated target (other control curve was superimposed).

References

Add any needed references in the APA format

Ex:

Rougeaux H, Kervarec N, Pichon R, Guezennec J. Structure of the exopolysaccharide of *Vibrio diabolicus* isolated from a deep-sea hydrothermal vent. Carbohydr Res. 1999 Nov 23;322(1-2):40-5. PMID: 10629947.

Conflict of interest

The authors declare no conflict of interest.

**Data Availability Statement**

The data that support the findings of this study are available from the corresponding author upon reasonable request.