Supplementary Materials: Research on the Mechanism of Action of Citrinin and Anti- Citrinin Antibody Based on Mimotope X27

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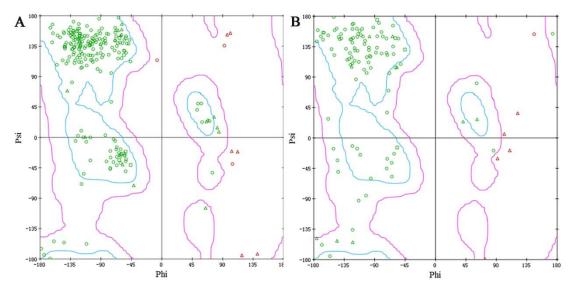
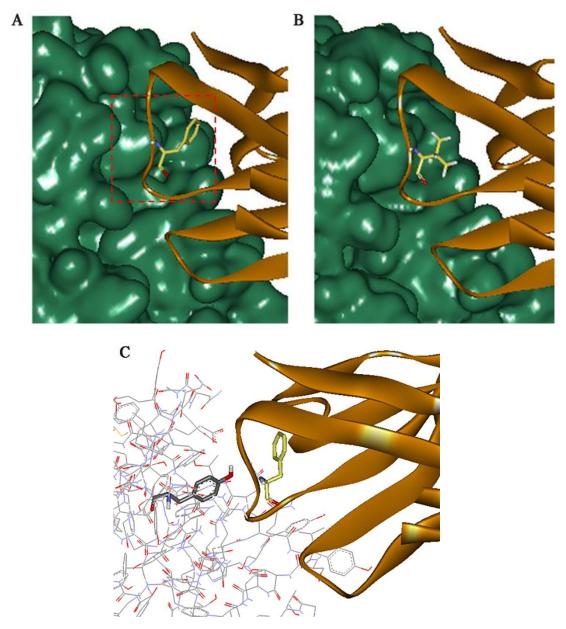


Figure S1. The Ramachandran Plot of the models of anti-CIT ScFv(**A**) and X27(**B**). Cyan region: Hardsphere, Magenta region: Overlap.

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○ Consensus	MAEVOLVESGGGLVOAGG	SLRLSCAGSGRFLFLY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
24 Sequences	10	20 30	40	50 60
1.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRFWSWK	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
2.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRFSKPY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
3.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRSQPASI	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
4.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRTFNRY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
5.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGREVFTL	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
6.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRLLHVF	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
7.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRPTTMF	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
8.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRF.WLL	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
9.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRTFNRY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
10.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRILILF	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
11.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRFRTCL	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
12.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRWDRGP	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
13.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRSFFCY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
14.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRPFWLR	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
15.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRSPP.KI	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
16.pro	MAEVQLVESGGGLVQAGG:	SLRLSCAGSGRLLF.N	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
17.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRSYWLG	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
18.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRAFNRY	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
19.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRFHLGV	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
20.pro	. IAEVQLVESGGGLVQAGG	SLRLSCAGSGRLLSGS	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
21.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRWPFGI	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
22.pro	MAEVQLVESGGGLVQAGG	SLRLSCAGSGRF.LS.	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
23.pro	MAEVQLVESGGGLVQAGG	ELRLSCAGSGRFLI	PMSWFRQVPGKERE	VAEINWSGSSTYYAD
24.pro	MAEVQLVESGGGLVQAGG:	SLRLSCAGSGRILWCS	PMSWFRQVPGKERE	VAEINWSGSSTYYAD

Figure S2. Sequence analysis of 24 clones from Site-directed saturation library.

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 $\label{eq:Figure S3.} \ \ \text{The Docking results of anti-CIT ScFv}(A) \ \ \text{and F29V-ScFv}(B). \ \ (C) \ \ \text{An enlarged view of the dotted box part in panel A}.$