

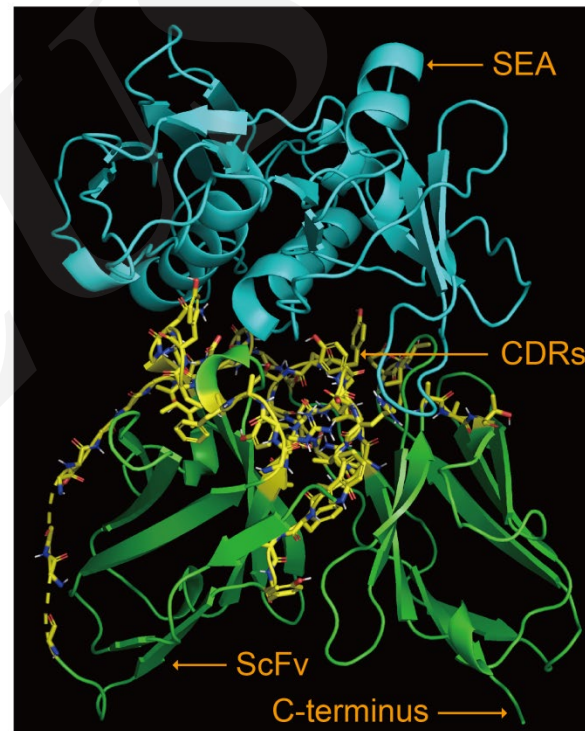
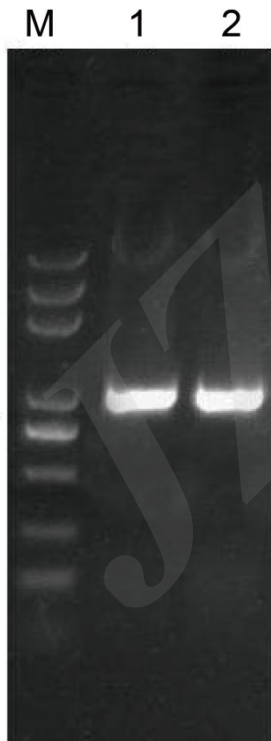
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A tetravalent single-chain variable fragment antibody for the detection of staphylococcal enterotoxin A

Key words: Staphylococcal enterotoxin A (SEA), ELISA, Single-chain variable fragment (scFv), Tetramer

Research Summary

This study indicated that genetically engineered tetramerization is a potential way to improve the sensitivity of SEA-specific scFv.



Innovation points

A series of figures were generated to visualize the results:

Figure 1 | Host distribution of SEA-producing *S. aureus* strains.

Figure 2 | Genetic components of pET-22b-scFv/p53 plasmid.

Figure 3 | Expression and purification of the tetravalent scFv antibody.

Figure 4 | Characterization and application of the tetravalent scFv antibody.

Figure 5 | Interactive mode of scFv antibody and SEA.