

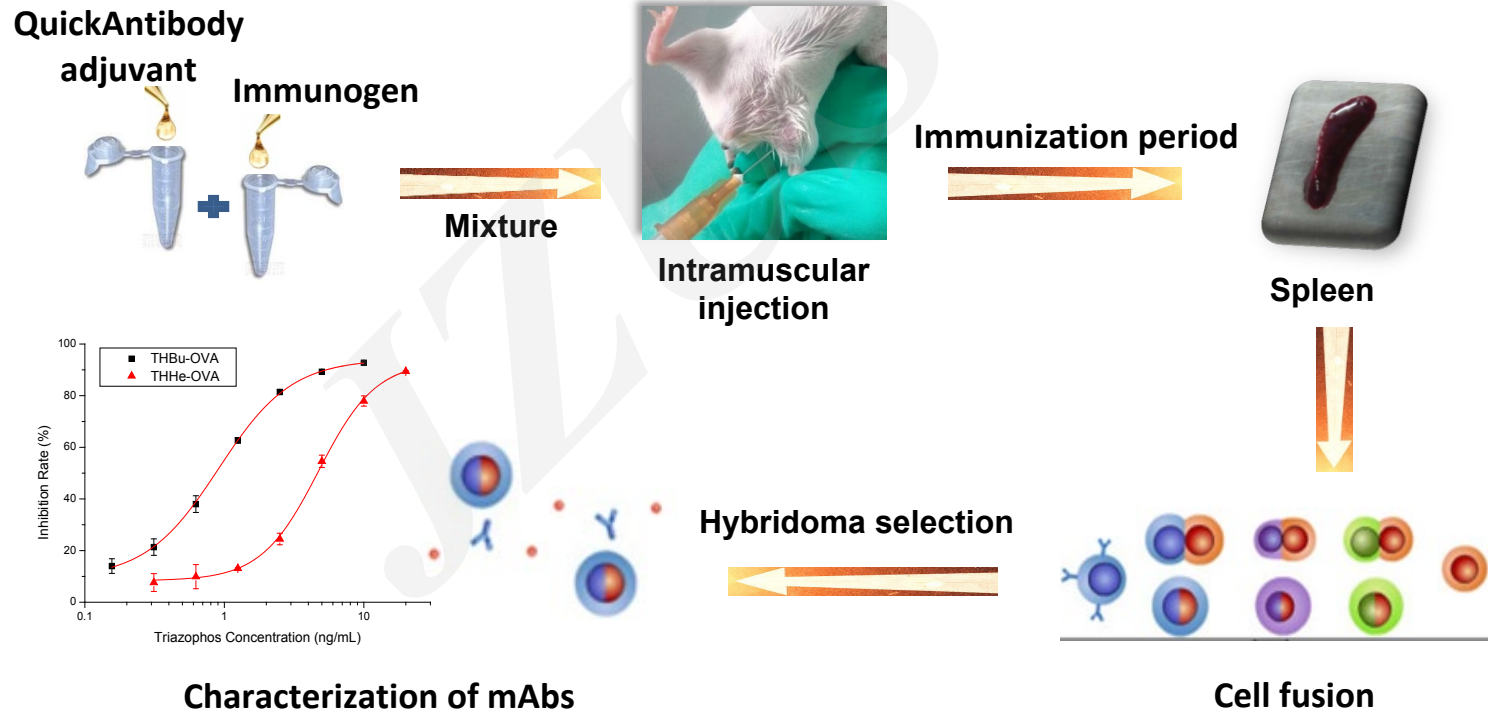
Cite this as: Rui LIU, Ying LIU, Mei-jing LAN, Niusha TAHERI, Jing-li CHENG, Yi-rong GUO, Guo-nian ZHU, 2016. Evaluation of a water-soluble adjuvant for the development of monoclonal antibodies against small-molecule compounds. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*. **17**(4):828-293.
<http://dx.doi.org/10.1631/jzus.B1500278>

Evaluation of a water-soluble adjuvant for the development of monoclonal antibodies against small-molecule compounds

Key words: Water-soluble adjuvant, Monoclonal antibody,
Hapten-specific, High-affinity

Research Summary

This study mainly focused on evaluating a new water-soluble and easy-to-use adjuvant named QuickAntibody for producing mAbs toward different kinds of low-molecular-weight compounds, and summarized its features in the development of hapten-specific mAbs.



Result points



- **Adverse effects to the experimental animals were little.**
- **Antiserum titers were relatively lower but acceptable.**
- **Immunization period was 5-7 weeks before cell fusion.**
- **Fusion efficiency for immune-positive clones was satisfactory.**
- **Five kinds of newly-developed mAbs were highly sensitive to the corresponding target analytes.**
- **The new water-soluble adjuvant could be used for rapidly producing effective mAbs against small-molecule compounds**