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Application of a recombinant replicase to localize the *Trionyx sinensis* hemorrhagic syndrome virus and evaluate its effects on antiviral genes of *T. sinensis*

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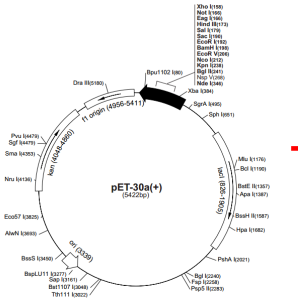
Key words: TSHSV, Replicase, Virus localization, Immune genes

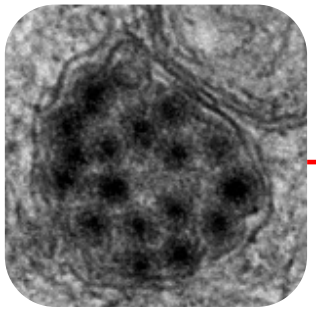
Research Summary

This article mainly focused on the localization of the *Trionyx sinensis* hemorrhagic syndrome virus on different cell and the effect of polyclonal antibody on antiviral genes of *T. sinensis*

Prokaryotic expression system construction

Polyclonal antibody preparation



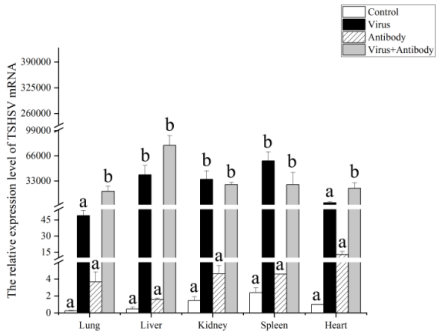




Localization

Effects on virus





Innovation points

- **We found that this virus was highly localized in various cells, including intestinal lymphocytes, enterocytes, kidney epithelial cells, spleen cells, lung macrophages, and cardiomyocytes.**
- **We demonstrated that polyclonal antibody led to higher virus mRNA copies and expression of *MX2* and *RSAD2* than in those of virus group.**

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