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## Tubulin mediates Portunus trituberculatus reovirus infection

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Receptor. By using viral overlay protein binding assay (VOPBA), swimming crab *Portunus trituberculatus* reovirus (SCRV) was found to bind to a protein of approximately 550 kDa. MALDI-TOF MS–MS analysis revealed that the protein shares the closest homology with  $\beta$ -tubulin. Mouse membrane proteins were tested by western blot with antibodies against the SCRV-binding protein and mouse tubulin, and uniform positive bands were obtained. The results indicated that the SCRV-binding protein was tubulin. The interaction between tubulin and SCRV was further confirmed with co-immunoprecipitation. SCRV infection *in vitro* could be blocked by a tubulin-specific antibody. The role of tubulin as a major cell surface protein has been reported previously. These findings suggest that tubulin mediates SCRV infection and may function as a receptor for SCRV.

## **Biography**

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