

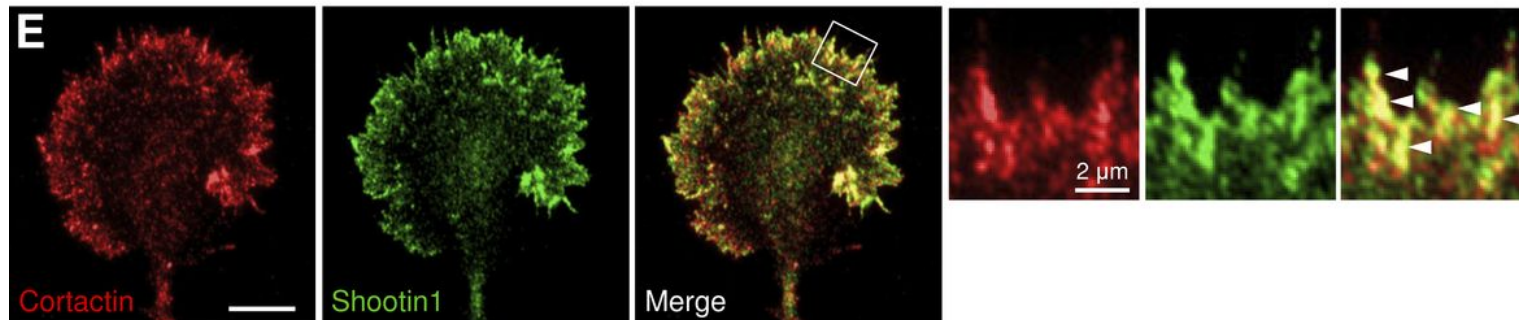
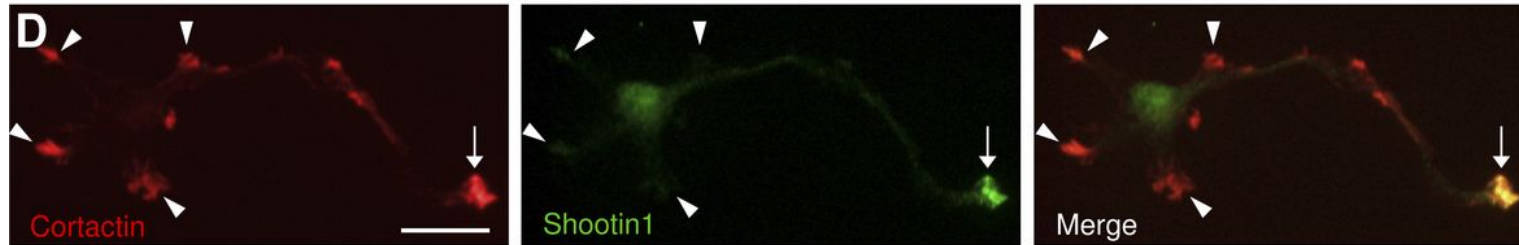
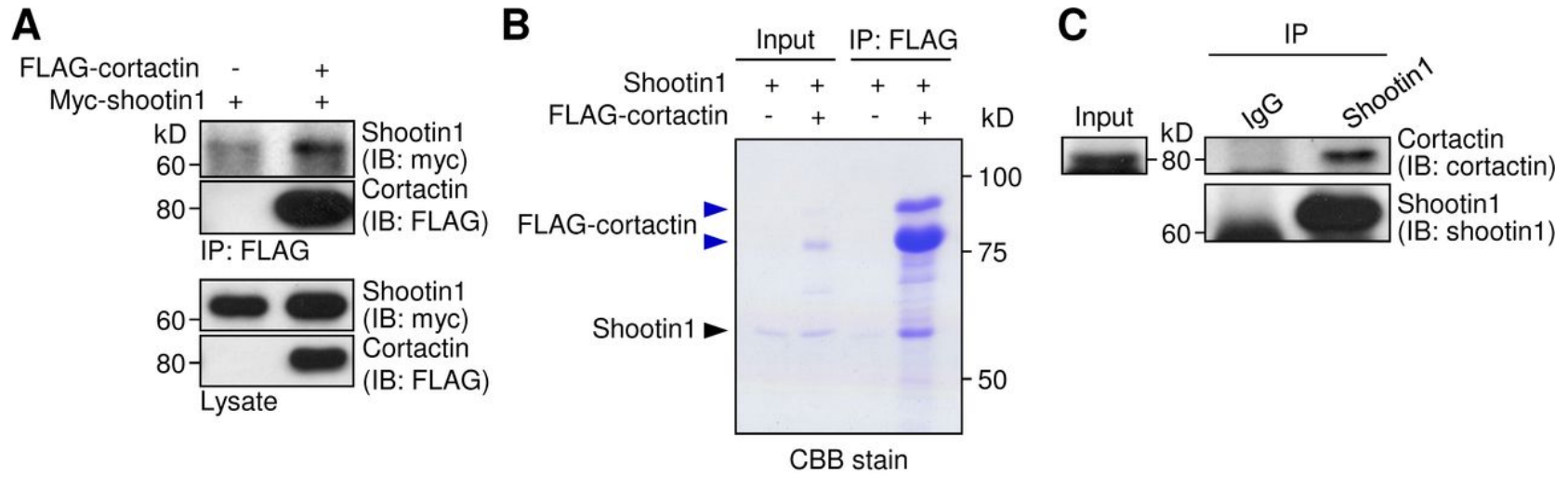
Shootin1–cortactin interaction mediates signal–force transduction for axon outgrowth

Yusuke Kubo, Kentarou Baba, Michinori Toriyama, Takunori Minegishi, Tadao Sugiura, Satoshi Kozawa, Kazushi Ikeda, and Naoyuki Inagaki

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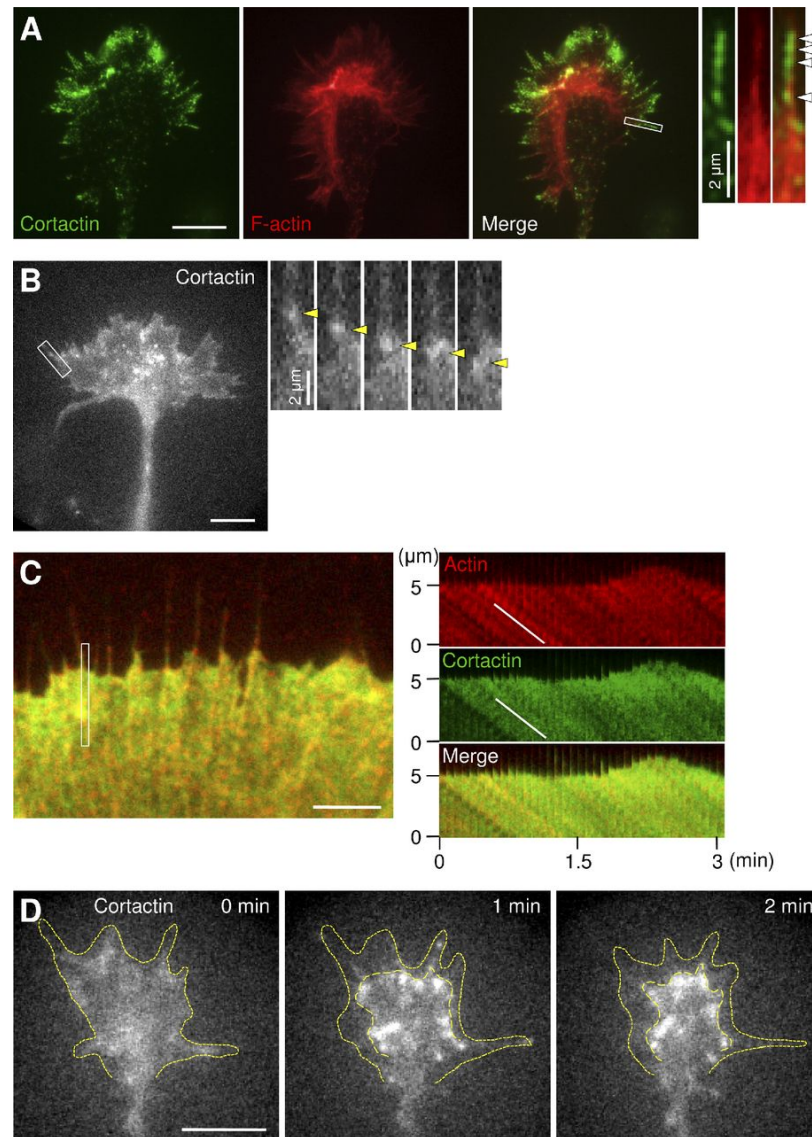
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Cortactin directly interacts with shootin1 in axonal growth cones.



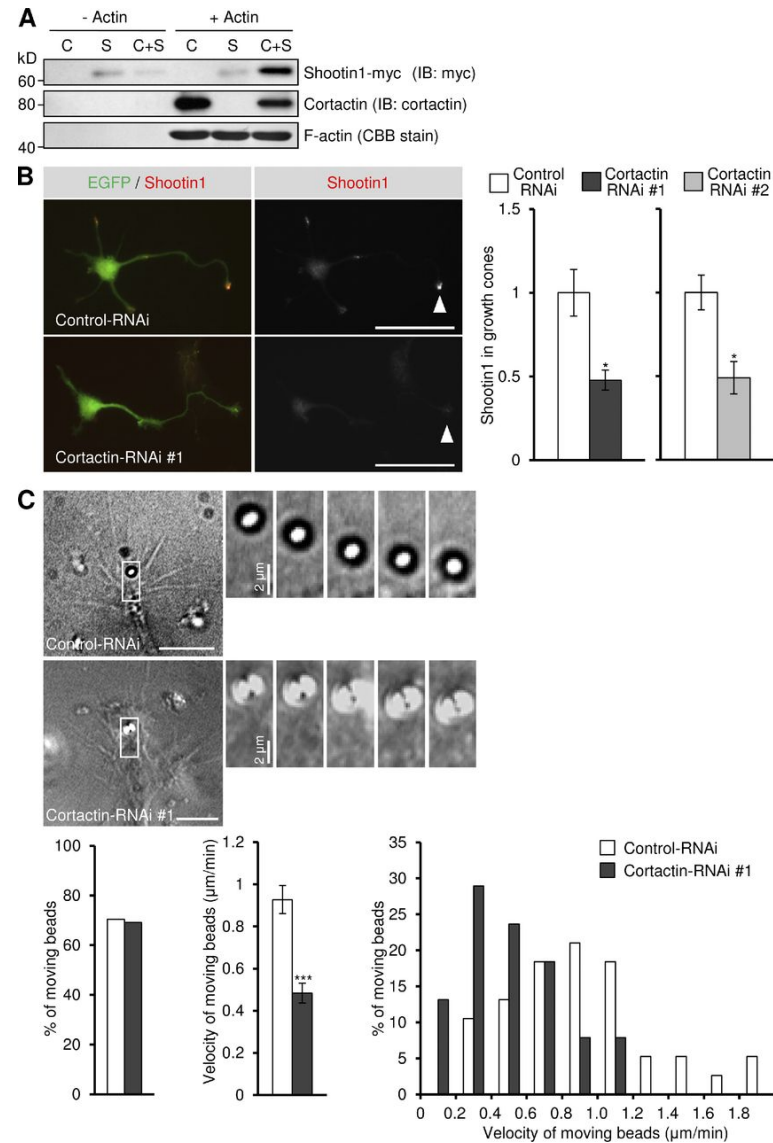
Yusuke Kubo et al. *J Cell Biol* 2015;210:663-676

Cortactin interacts with F-actin retrograde flow.



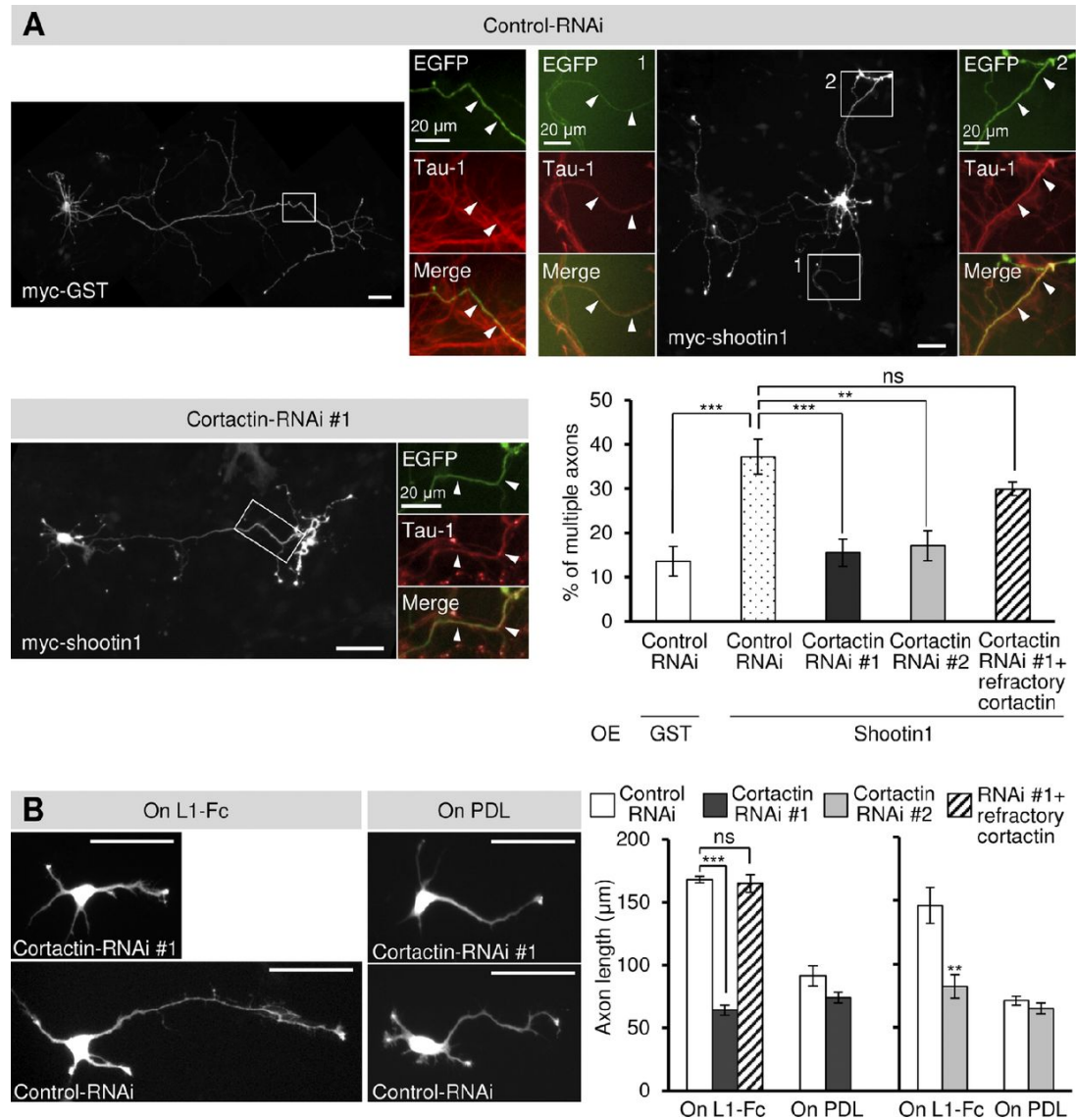
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Cortactin mediates the linkage between F-actin and shootin1 as a clutch molecule.



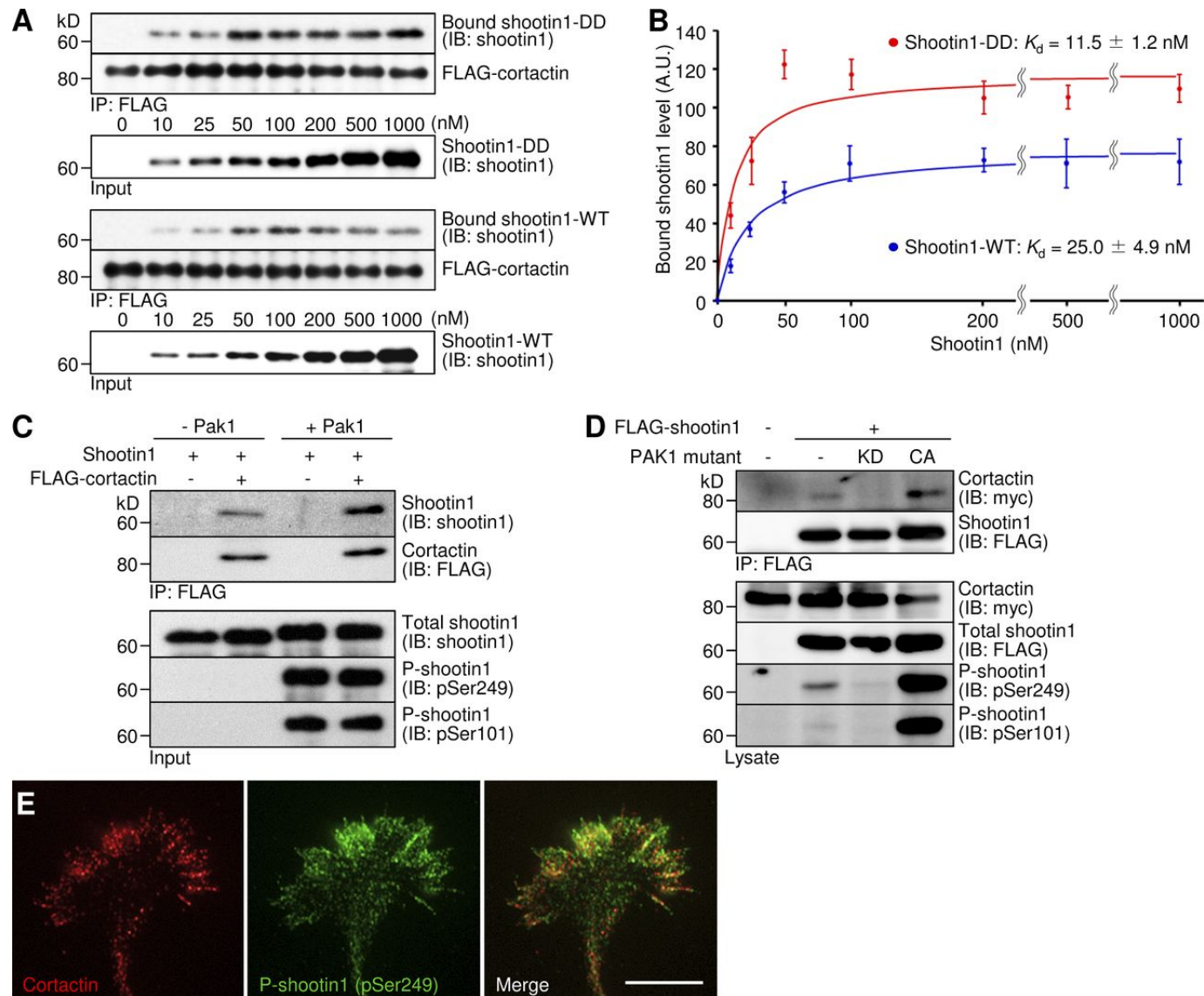
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Cortactin is involved in shootin1-mediated and L1-CAM-dependent axon outgrowth.



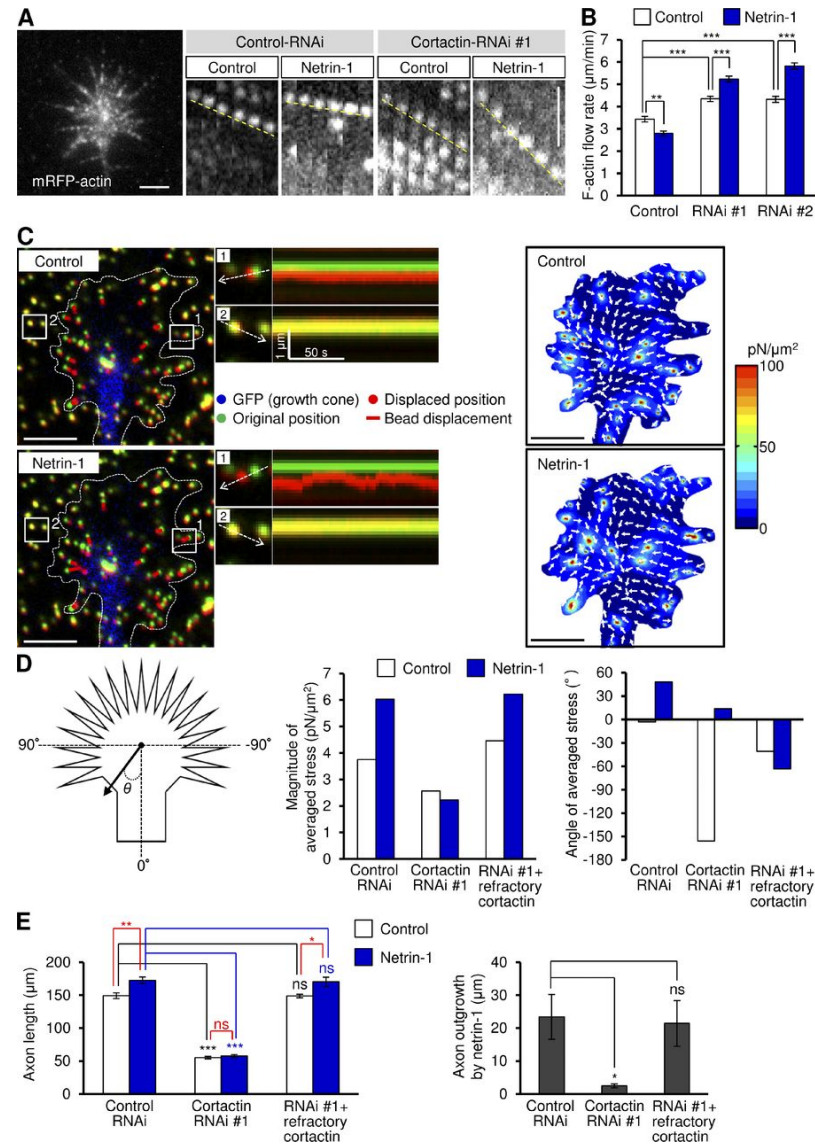
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Pak1-mediated shootin1 phosphorylation enhances shootin1–cortactin interaction.



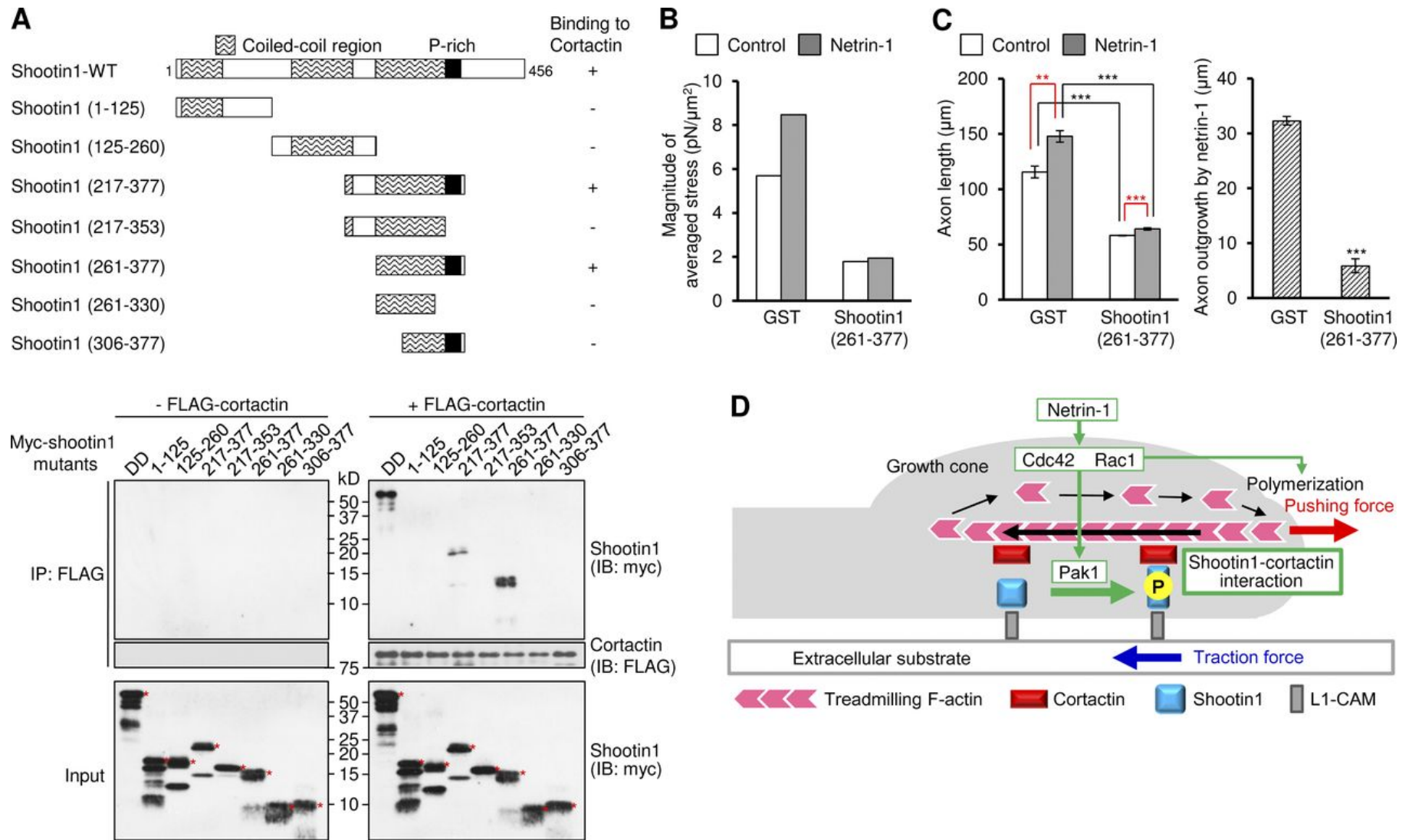
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Cortactin is involved in netrin-1–induced F-actin–substrate coupling and promotion of traction force for axon outgrowth.



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Shootin1–cortactin interaction mediates netrin-1–induced generation of traction force and axon outgrowth.



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