

**Ninj2 regulates Schwann cells development by interfering Laminin-  
integrin signaling**

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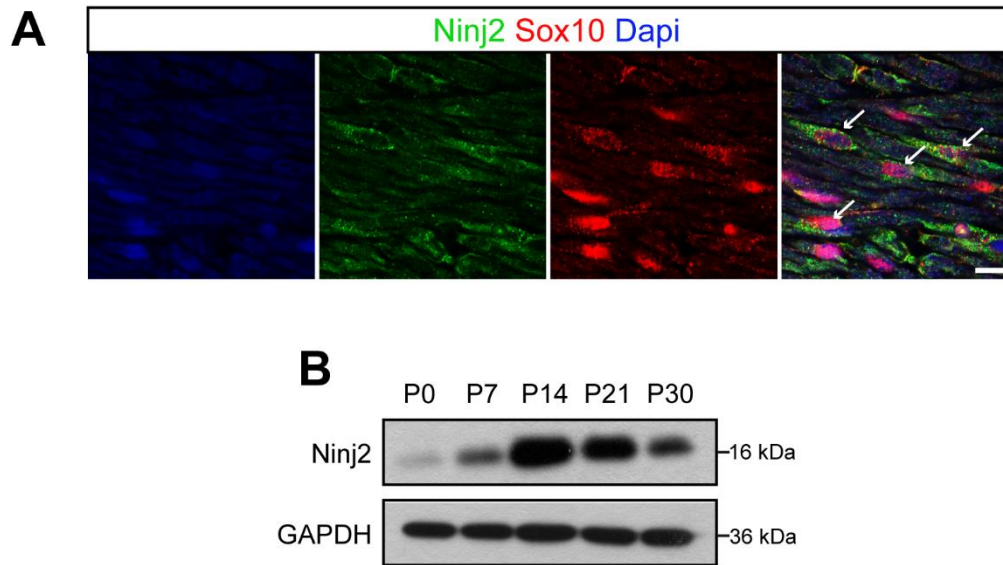
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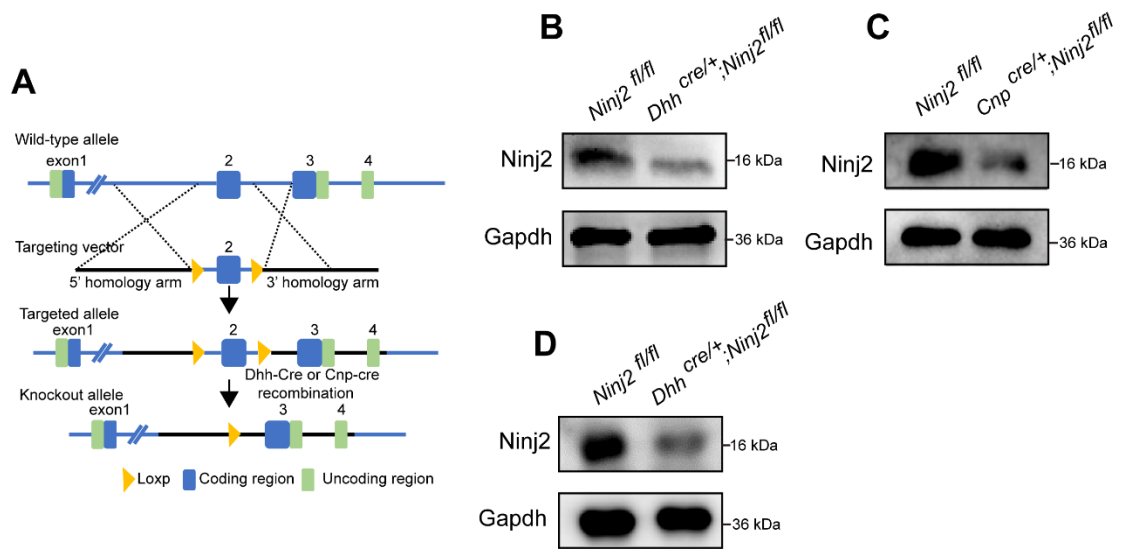
**Figure S1**



**Figure S1. *Ninj2* is dynamically expressed in SCs.**

(A) Immunofluorescent staining *Ninj2* and *Sox10* were performed in the sciatic nerve sections from WT mice at P60. Scale bar, 10  $\mu$ m. (B) *Ninj2* protein levels were assayed in sciatic nerve of WT mice at the days indicated.

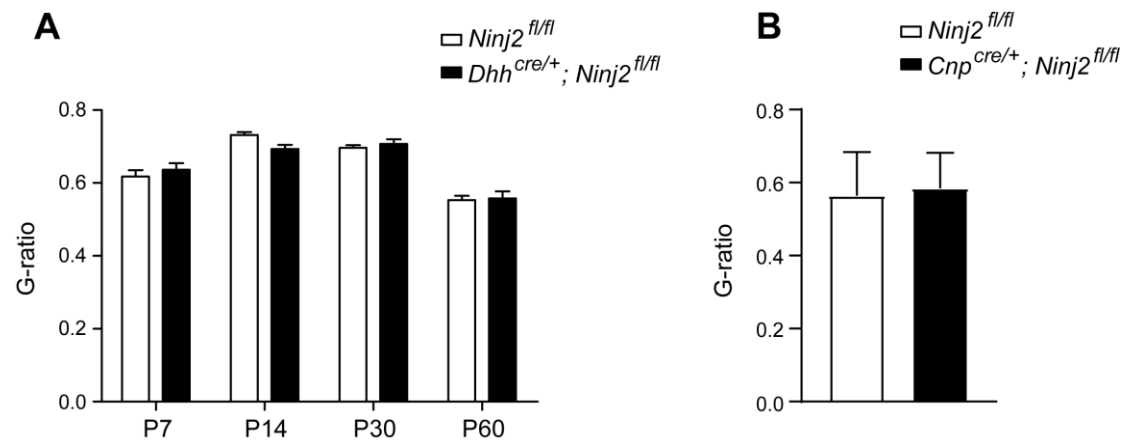
**Figure S2**



**Figure S2. The strategy of generating *Ninj2* conditional knockout mice.**

(A) The strategy of generating *Ninj2* conditional knockout mice. (B-D) *Ninj2* protein levels were assayed by western blot in sciatic nerve of WT/*Dhh*<sup>cre/+</sup>;*Ninj2*<sup>fl/fl</sup> mice (B), WT/*Cnp*<sup>cre/+</sup>;*Ninj2*<sup>fl/fl</sup> mice at P60, and primary cultured SCs isolated from WT/*Dhh*<sup>cre/+</sup>;*Ninj2*<sup>fl/fl</sup> mice (D).

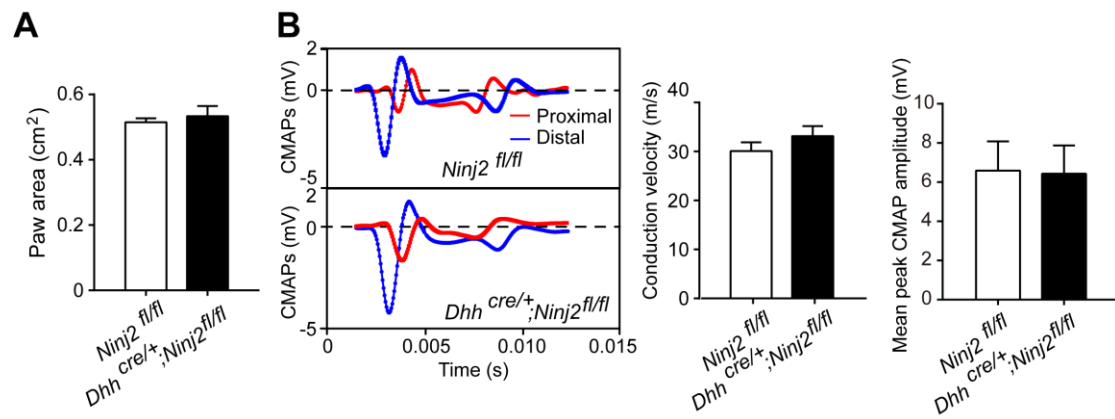
**Figure S3**



**Figure S3. Loss of *Ninj2* has no effect on myelin sheath thickness.**

The G-ratio of the sciatic nerve from WT and *Dhh<sup>cre/+</sup>;Ninj2<sup>fl/fl</sup>* mice from postnatal day 7 to 60 as indicated (A), and WT and *Cnp<sup>cre/+</sup>;Ninj2<sup>fl/fl</sup>* mice at P60 (B), were quantified.

**Figure S4**



**Figure S4. Loss of *Ninj2* has no effect on myelination at adulthood.**

(A) Paw area in DigiGait analysis with WT or *Dhh*<sup>cre/+</sup>;*Ninj2*<sup>fl/fl</sup> mice at P60. (B) Electrophysiological recording of with WT or *Dhh*<sup>cre/+</sup>;*Ninj2*<sup>fl/fl</sup> mice at P60. For all panels, data were obtained from at least 6 mice.