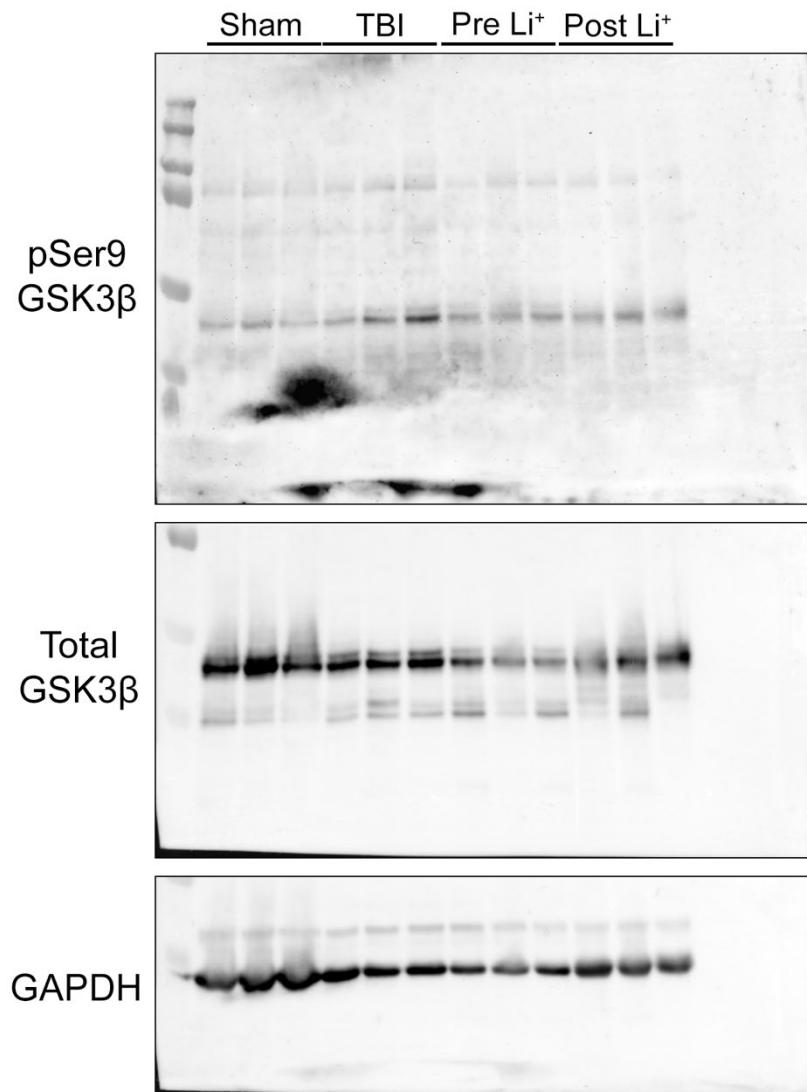
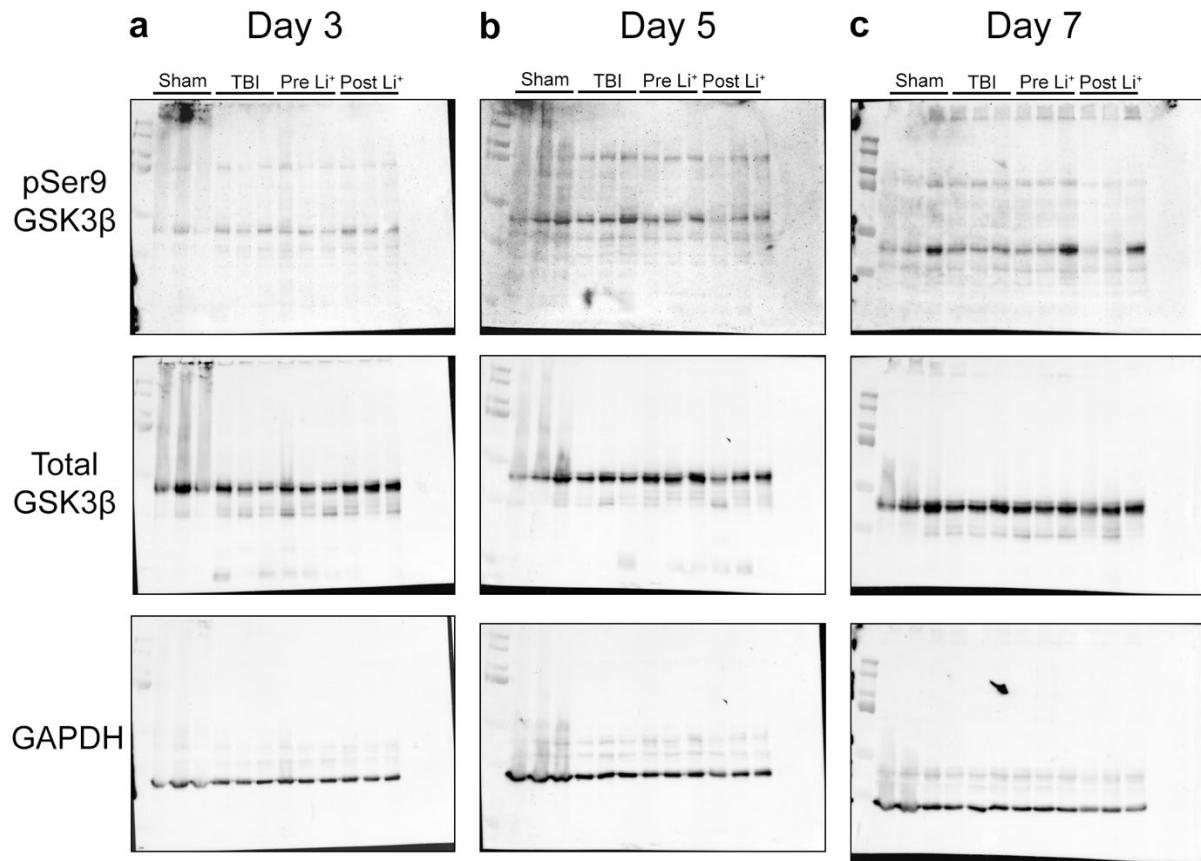


Day 10



Supplemental Material 1 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for pSer9 GSK3 β and re-probed for Total GSK3 β and GAPDH.

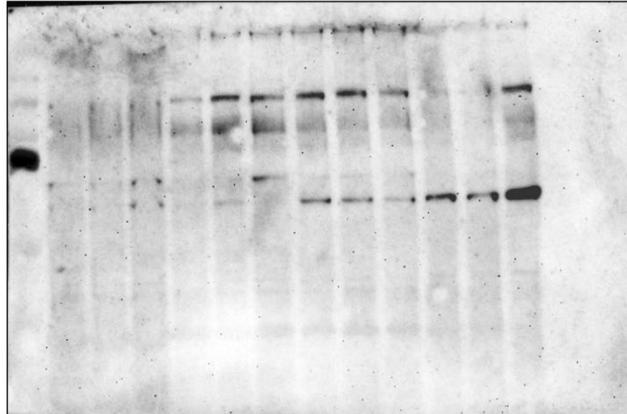


Supplemental Material 2 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at **(a)** day 3, **(b)** day 5, and **(c)** day 7 probed for pSer9 GSK3 β and re-probed for Total GSK3 β and GAPDH.

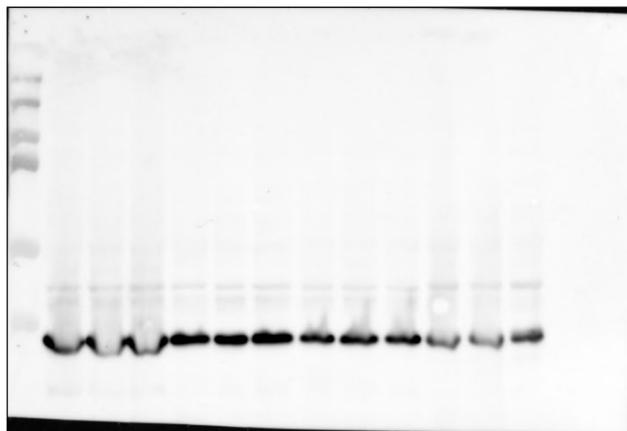
Day 10

Sham TBI Pre Li⁺ Post Li⁺

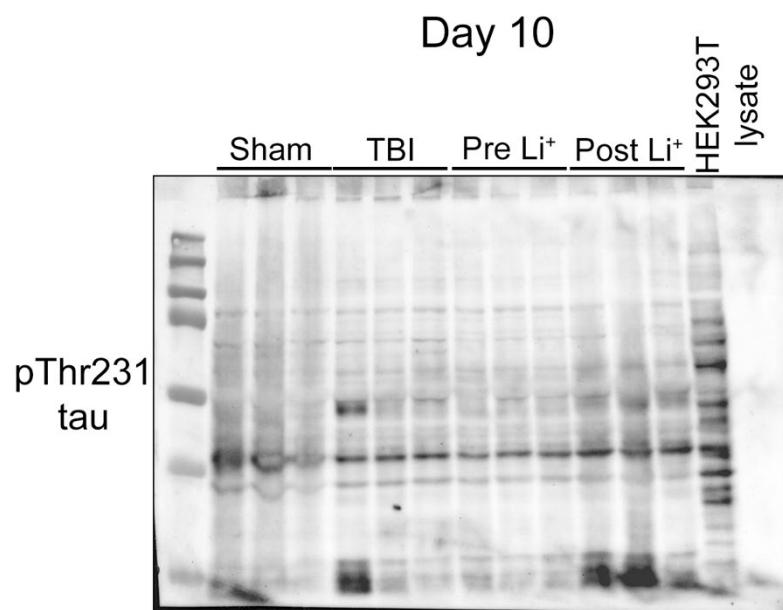
β-Catenin



GAPDH

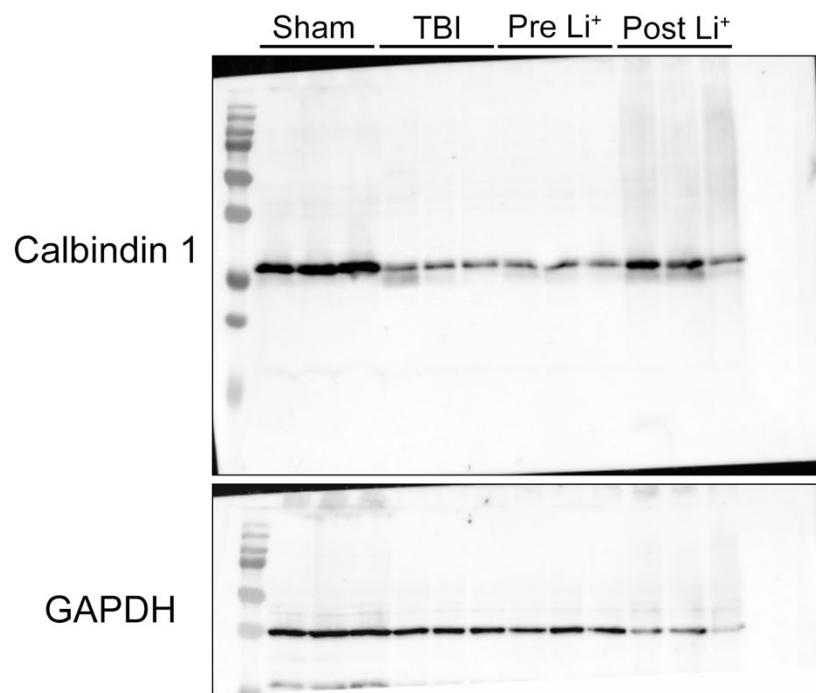


Supplemental Material 3 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for β-catenin and re-probed for GAPDH.



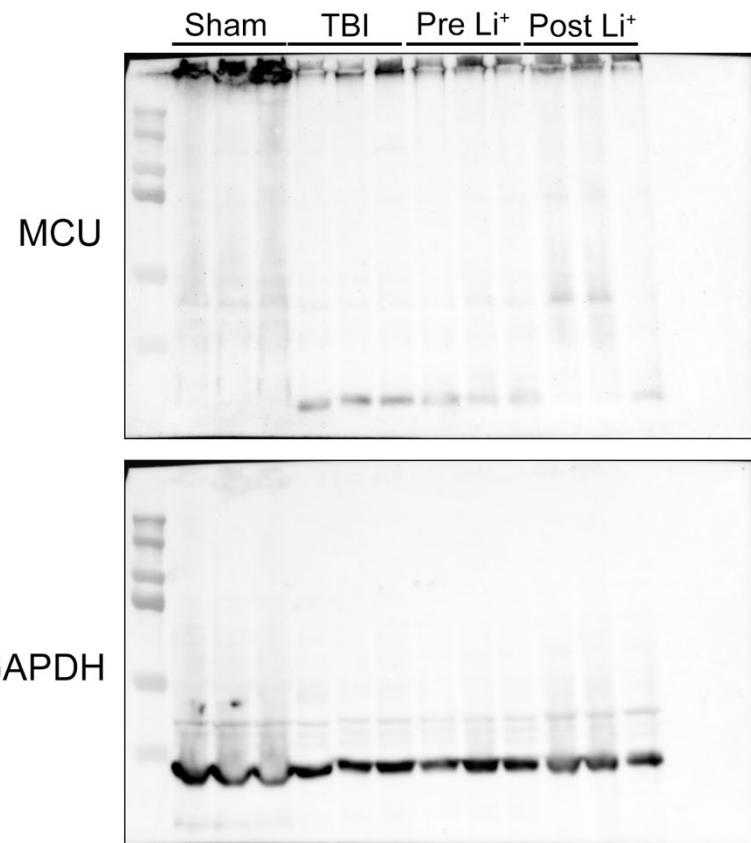
Supplemental Material 4 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for pThr231 tau.

Day 10



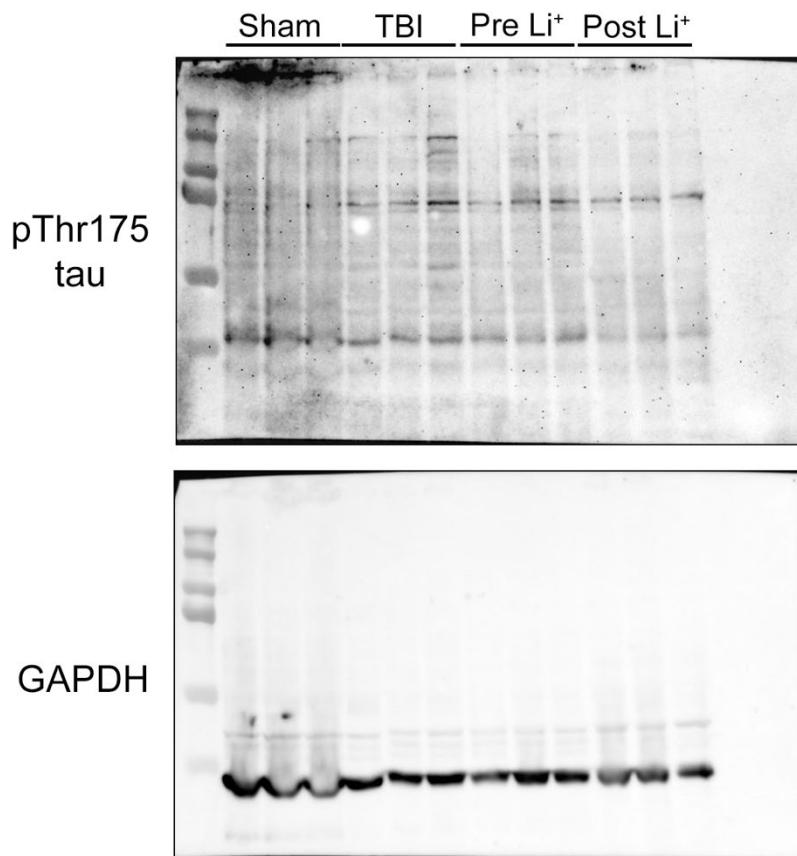
Supplemental Material 5 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for Calbindin 1 and re-probed for GAPDH.

Day 10



Supplemental Material 6 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for MCU and GAPDH.

Day 10



Supplemental Material 7 Raw uncropped immunoblot of rodent brain lysates from sham, TBI, TBI + Pre Li⁺, and TBI + Post Li⁺ subjects at day 10 probed for pThr175 tau and re-probed for GAPDH.