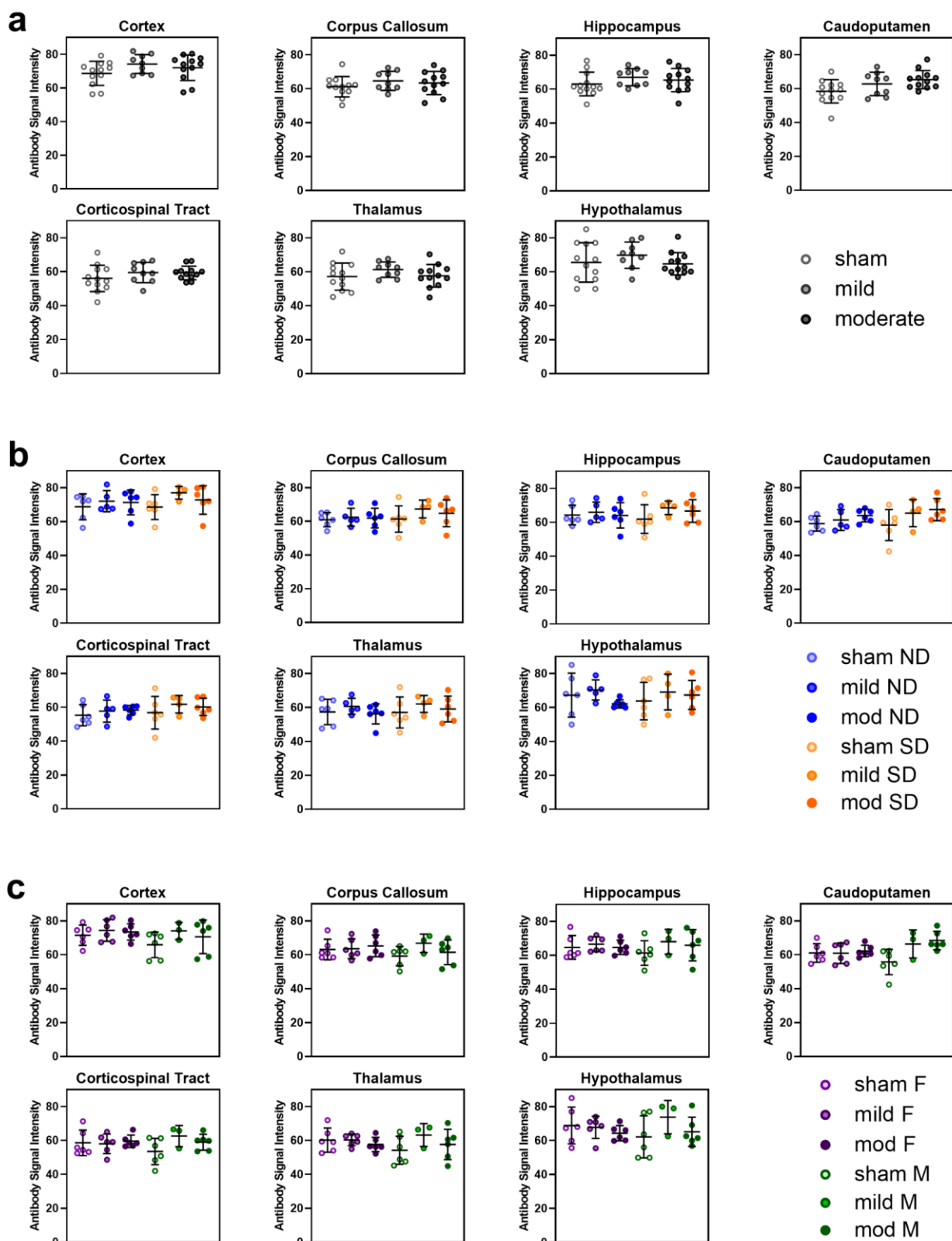
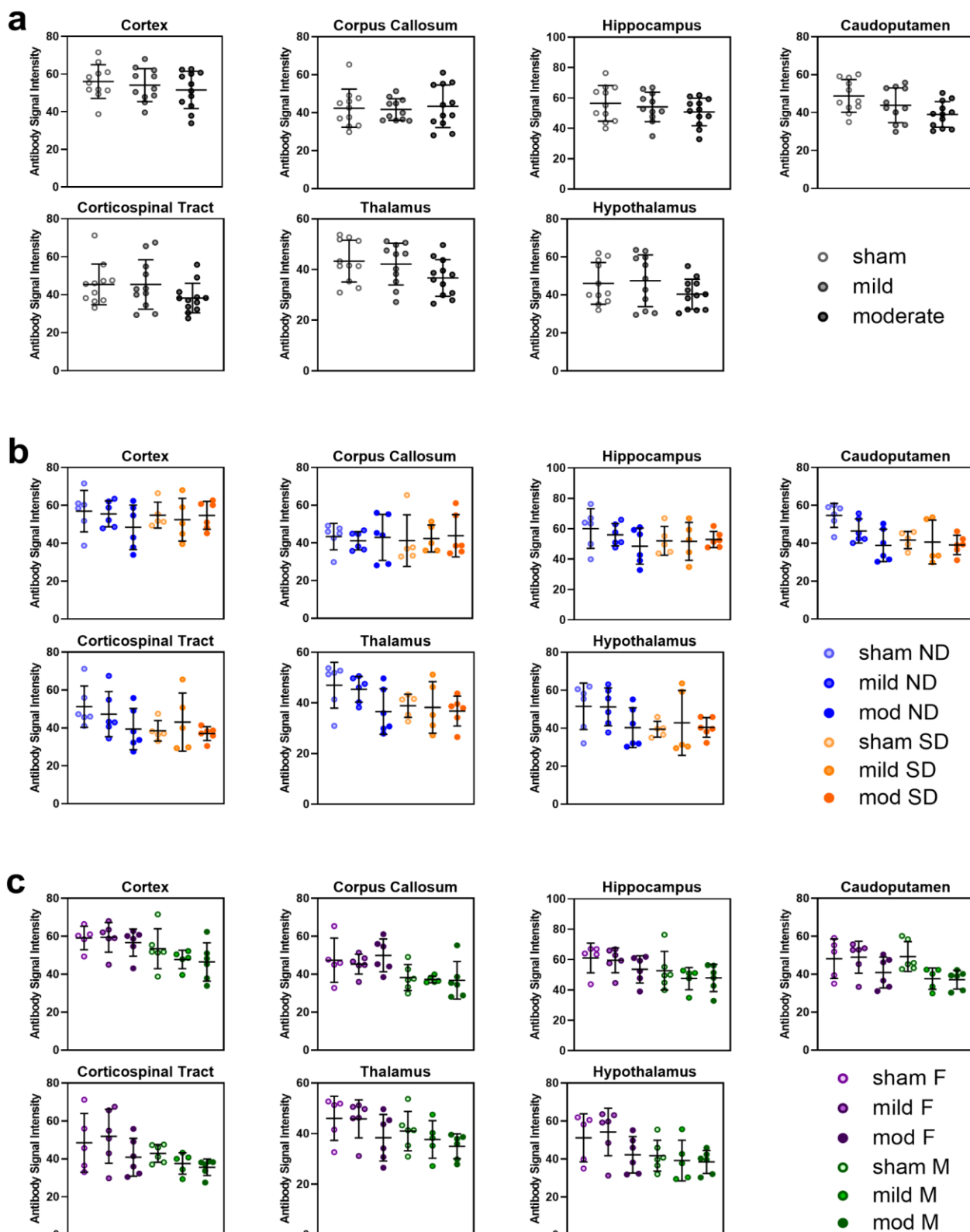
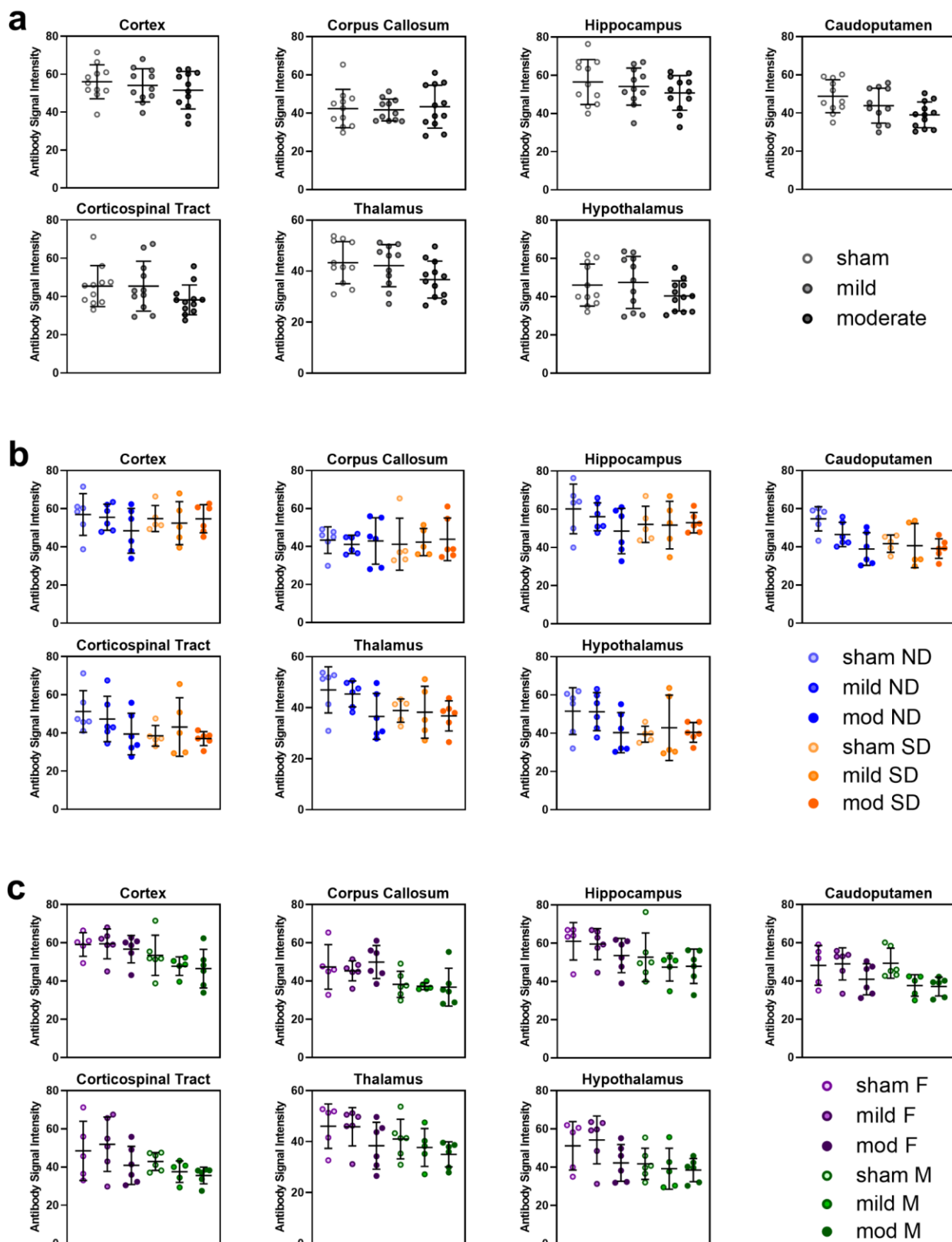




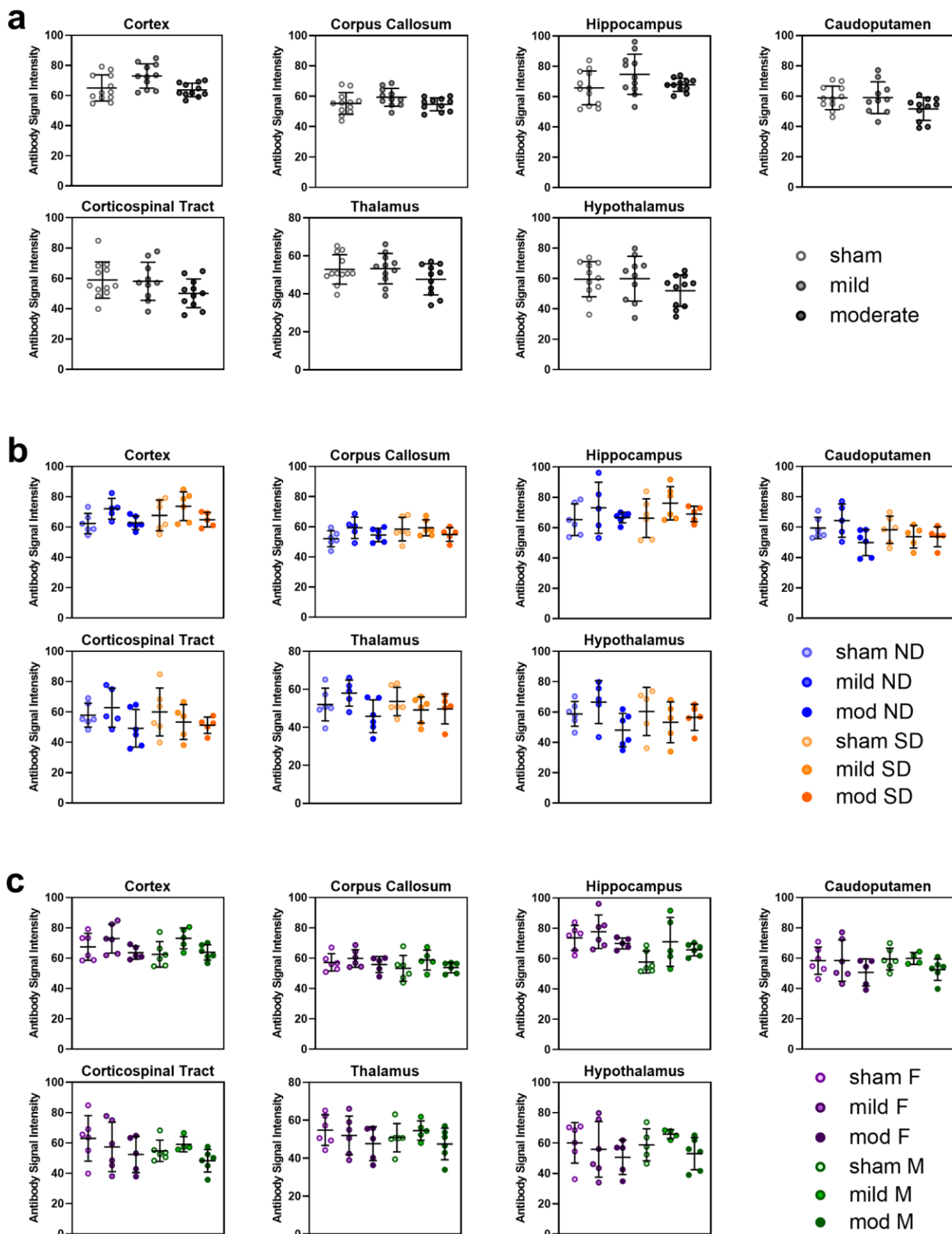
Supp Fig 1 ADTau4 anti-tau antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



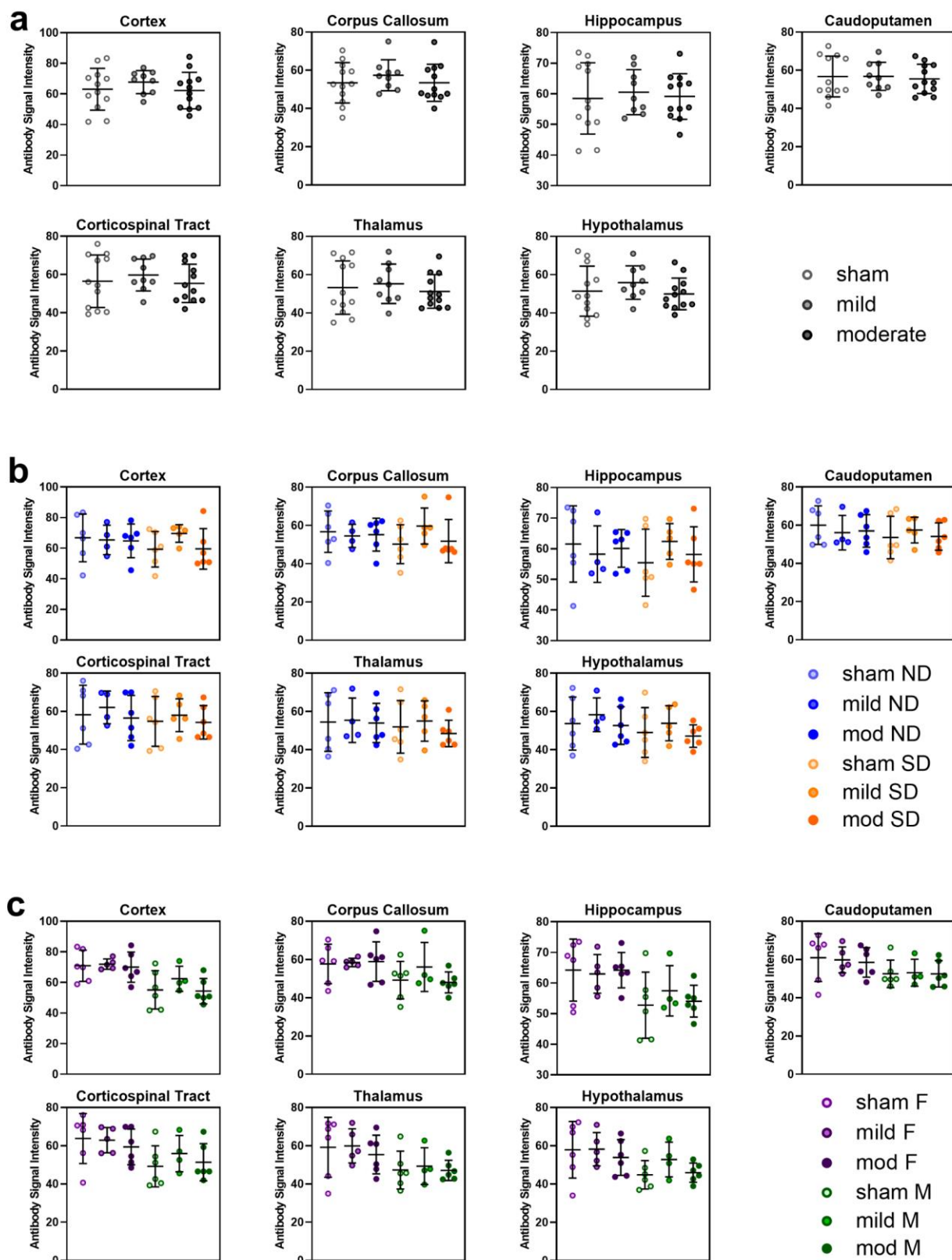
Supp Fig 2 ADTau6 anti-tau antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



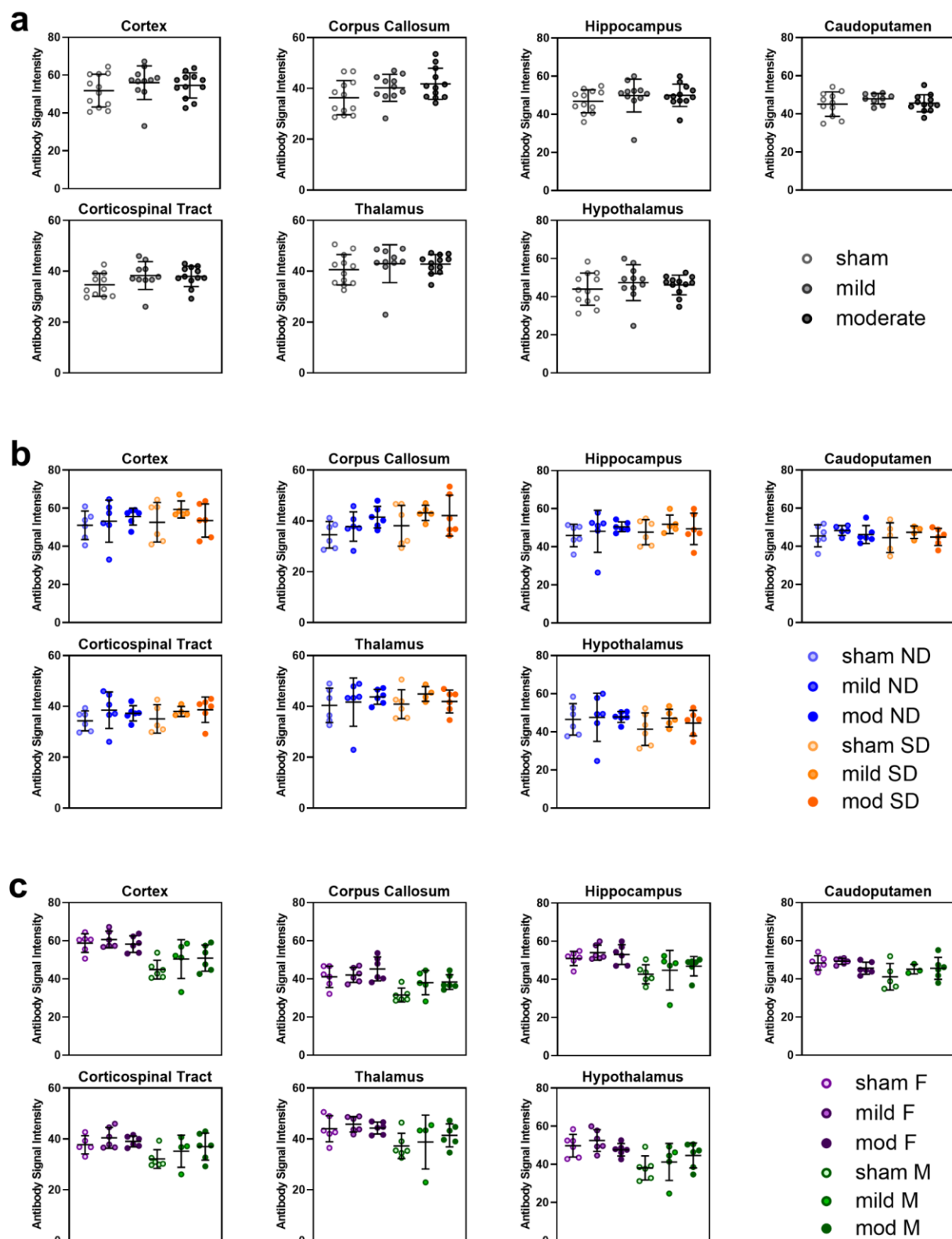
Supp Fig 3 ADTDP1 anti TDP-43 antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



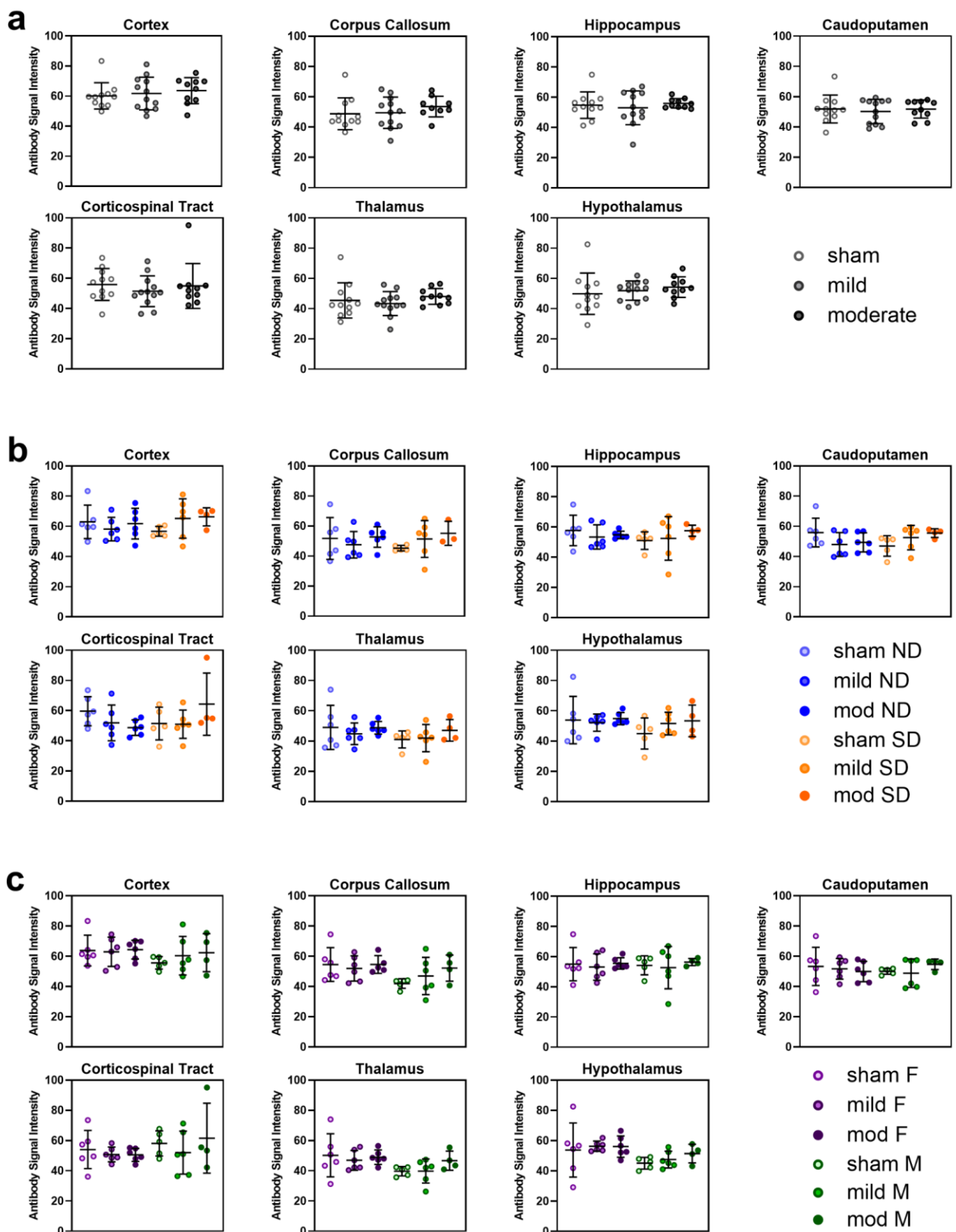
Supp Fig 4 ADTDP3 anti TDP-43 antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



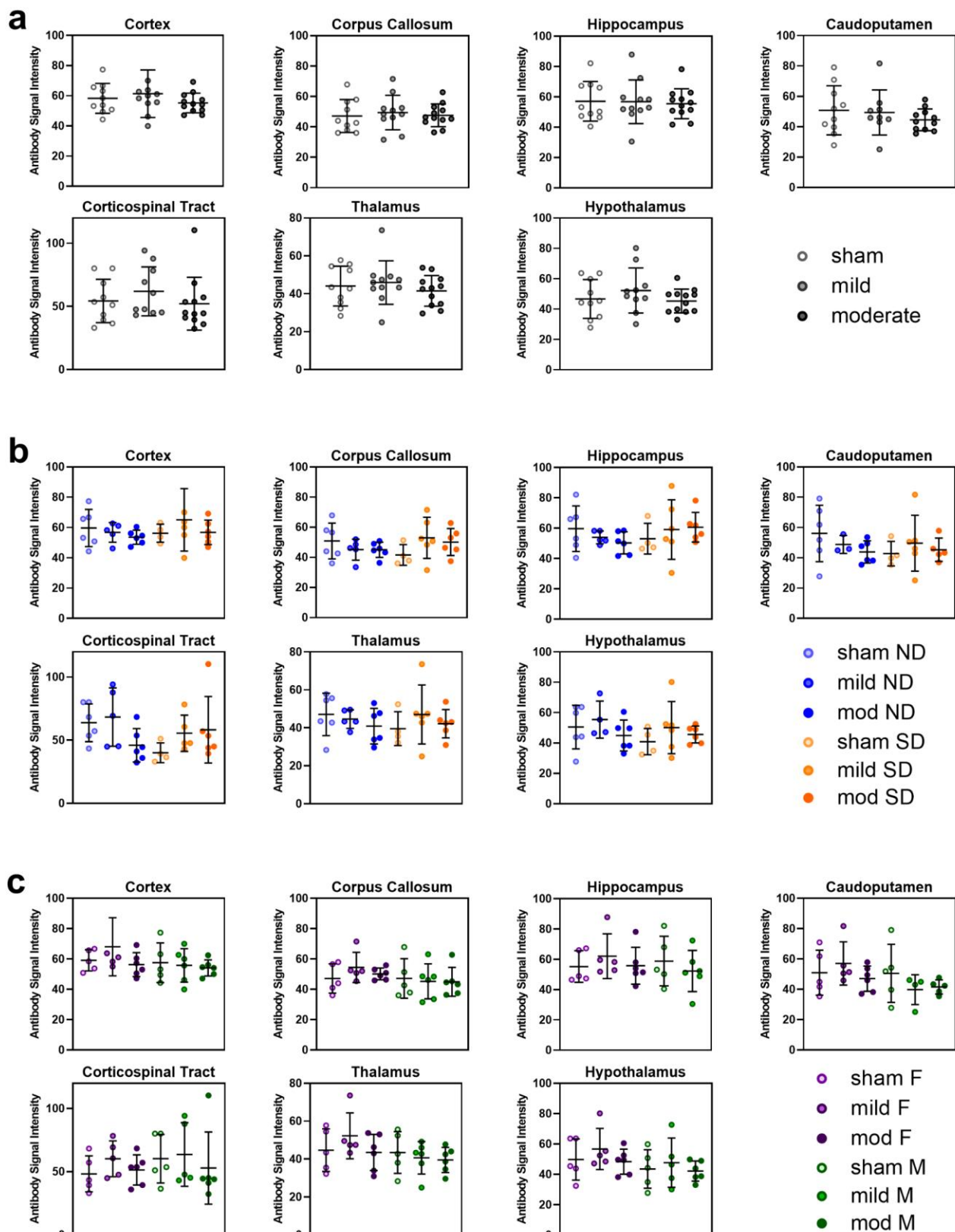
Supp Fig 5 A4 anti-amyloid- β antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex Error bars $\pm$ SD



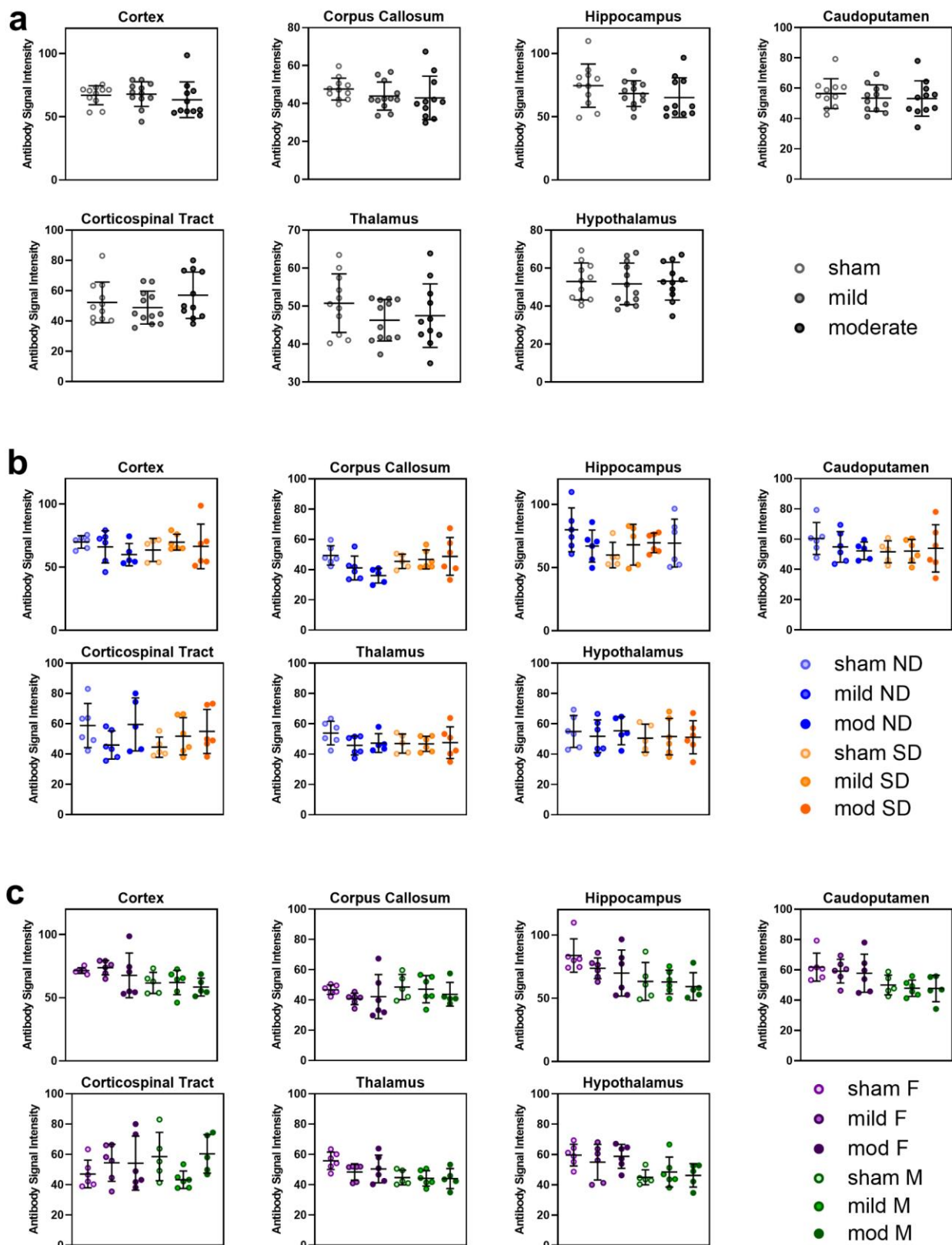
Supp Fig 6 C6T anti-amyloid- β antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



Supp Fig 7 F9T anti-tau antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex.. Error bars $\pm$ SD



Supp Fig 8 FTDP5 anti TDP-43 antibody-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury (sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars $\pm$ SD



Supp Fig 9 anti-mouse-IgG antibody negative control-immunostained mouse brain tissue measured for antibody staining intensity (a) grouped by TBI injury(sham, mild, moderate), (b) grouped by TBI and Sleep Disruption (SD) or no disruption (ND), and (c) grouped by TBI and sex. Error bars +/- SD