BDNF treatment counters the effects of chronic inactivity. (a) Example images of staining for GAD65 in TTX-treated cells in the absence or presence of 50ng/ml BDNF. (b) The reduction in GABAergic density caused by TTX treatment was reversed by BDNF. BDNF alone did not have a significant effect on GABAergic synapse density. (c) The lower intensity of GAD65 staining in TTX was reversed by the presence of BDNF (‡, p = 0.005). BDNF alone in the absence of TTX increased the intensity of GAD65 staining by almost 4-fold (†, p < 0.0001).