Supplementary Figure 1. TrkB-Fc and H2O2 Do Not Affect Survival in Hippocampal Neuron Cultures. A, LDH survival assay of 6 DIV hippocampal neuron cultures shows no significant change in survival with TrkB-Fc, H2O2 and antioxidants. One way ANOVA, p=0.36, n=4. B, Representative images of 6 DIV negative control cultures and cultures treated with TrkB-Fc + 4h H2O2. C, LDH survival assay of 12 DIV hippocampal neuron cultures shows no significant change in survival with TrkB-Fc, H2O2, or antioxidants. One wayanova, *p=0.039, n=4. D, Representative images of 12 DIV negative control cultures and cultures treated with TrkB-Fc and 4h H2O2. E, LDH survival assay of 21 DIV hippocampal neurons treated with TrkB-Fc, H2O2 and antioxidants. One way ANOVA, p=0.714, n=4. F, Representative images of 21 DIV negative control cultures and cultures treated with TrkB-Fc and 4h H2O2.
Supplemental Figure 2. Representative Western Blot Images for 6, 12 and 21 DIV Cultures.
Representative western blot images for 6 DIV (A), 12 DIV (B) and 21 DIV neurons (C) stained for SIRT1, actin, and H3. Protein concentration was the same for all wells within a blot, ranging from 8-15 μg/well.
Supplementary Figure 3. Antioxidant Treatment Does Not Change SIRT1 Levels. A, SIRT1 western blot analysis of hippocampal neurons treated with 1 μg/ml TrkB-Fc for 24h, 200 μM H2O2 for 4h and antioxidants for 24h. Welch’s ANOVA, p=0.38. B, SIRT1 western blot analysis of hippocampal neurons treated with antioxidants for 24h. Welch’s ANOVA, p=0.55.