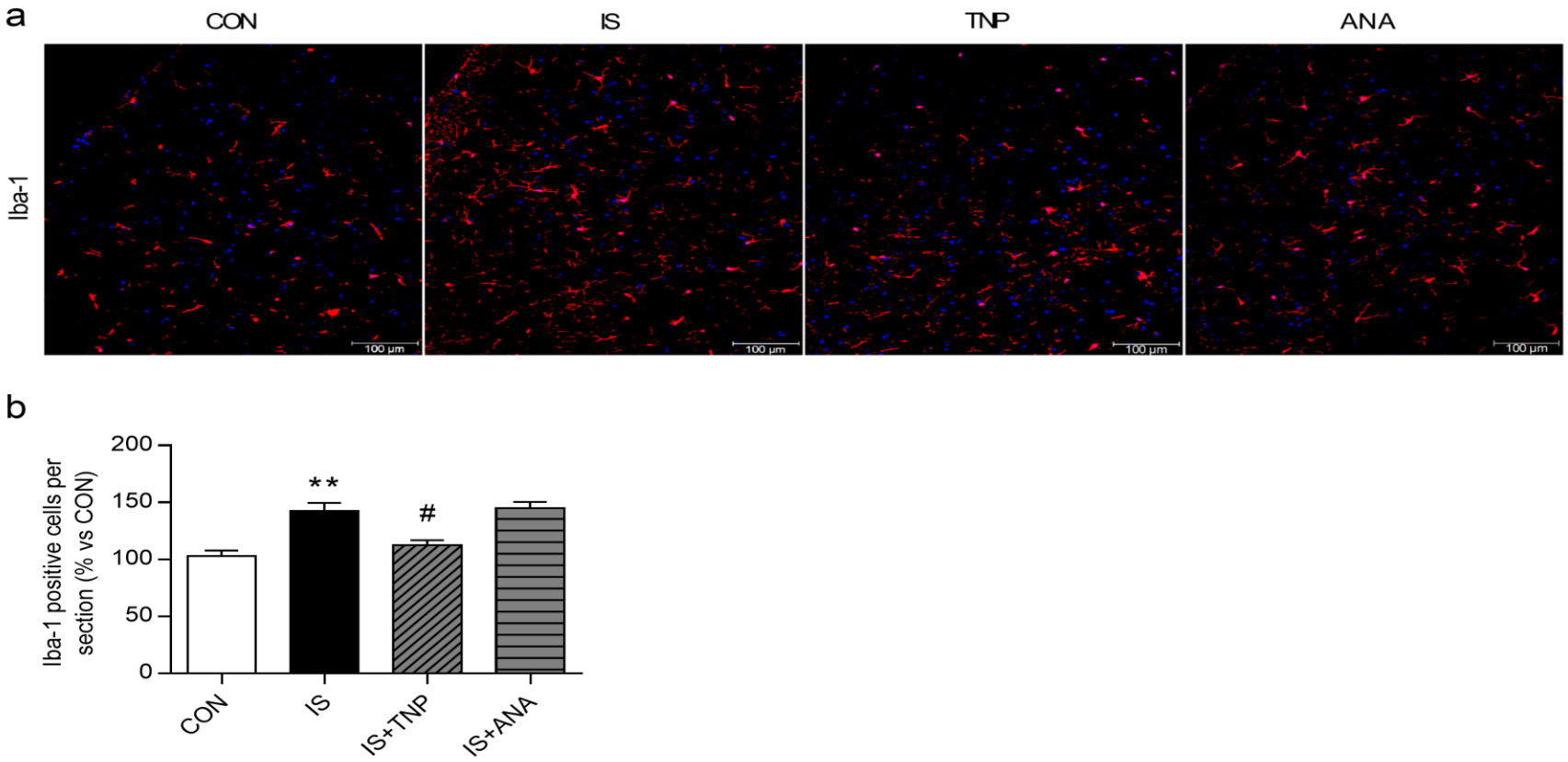
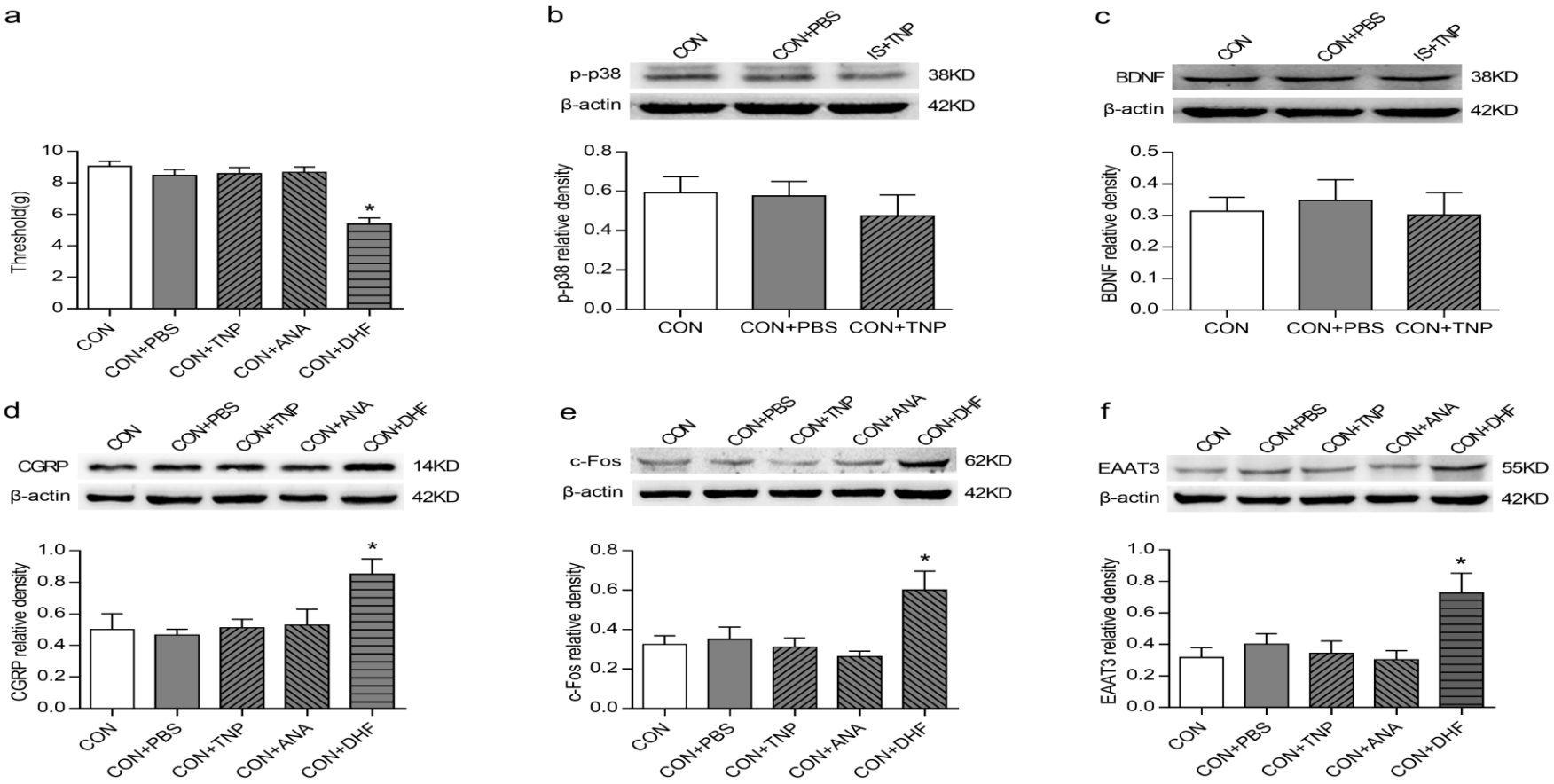


Supplemental Figure 1. Immunofluorescence of Iba-1 expression in the TNC. (a) Representative immunofluorescence samples of Iba-1 in the TNC in the CON, IS, IS+TNP (30nmol) and IS+ANA (100nmol) groups. Blue indicates DAPI immunoreactivity, red indicates Iba-1 immunoreactivity. **(b)** Histograms showed the statistical results of Iba-1 expression in TNC (a). Data represent the mean ± SEM. Statistical analyses were performed by one-way ANOVA, followed by a Tukey test; $^{**}P<0.01$ vs. CON, $^{\#}P<0.05$ vs. IS (n=3 per group). IS, inflammatory soup; TNP, TNP-ATP; ANA, ANA-12.



Supplemental Figure 2. Effect of TNP-ATP, ANA-12 and 7,8-DHF on trigeminal allodynia and p-p38, BDNF, CGRP, c-Fos, EAAT3 expression in the TNC in rats receiving repetitive dural PBS application. **(a)** TNP-ATP (30nmol) and ANA-12 (100nmol) treatment did not significantly alter the basal periorbital thresholds, while 7,8-DHF

(20nmol) obviously decreased the threshold as compared to the group of CON+PBS. **(b, c)** WB for p-p38 (b), BDNF (c) expression in the TNC (upper panel) revealed no evident difference among the three groups. Quantification (lower panel) of WB experiments was normalized to actin control. **(d-f)** WB for CGRP (d), c-Fos (e), EAAT3 (f) expression in the TNC (upper panel) revealed that TNP-ATP (30nmol) and ANA-12 (100nmol) treatment did not significantly alter their protein levels, while 7,8-DHF (20nmol) obviously increased their expression compared with the group of CON+PBS. There were no obvious difference between the group of CON and CON +PBS. Quantification (lower panel) of all WB experiments was normalized to actin control. Data represent the mean ± SEM. Statistical analyses were performed by one-way ANOVA, followed by a Tukey test; **P*<0.05 vs. CON (n=3-5 per group). WB, western blot; TNP, TNP-ATP; ANA, ANA-12; DHF, 7,8-DHF.