

Supplemental information

Adjunctive treatment of brexpiprazole with fluoxetine shows a rapid antidepressant effect in social defeat stress model: Role of BDNF-TrkB signaling

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Supplemental Figure 1. Effects of brexpiprazole and fluoxetine on the levels of proBDNF and TrkB in the brain regions

(a-f): Forty eight hours after administration of drugs, brain regions from mice were collected. Western blot analysis of proBDNF and β -actin in the brain regions (PFC, NAc, striatum, CA1, CA3, DG) was performed. The values are expressed as a percentage of that of control mice. Representative data of Western blot analyses of proBDNF and β -actin in the mouse brain regions. Data are shown as mean $\pm$ S.E.M. (n = 5 - 8). N.S.: Not significant. (g-l): Western blot analysis of TrkB and β -actin in the brain regions (PFC, NAc, striatum, CA1, CA3, DG) was performed. Representative data of Western blot analyses of TrkB, and β -actin in the mouse brain regions. The values are expressed as a percentage of that of control mice. Data are shown as mean $\pm$ S.E.M. (n = 5 - 8). N.S.: Not significant.

Supplemental Figure 2. Effects of ANA-12 on the levels of proBDNF and TrkB in the brain regions

(a-f): Forty eight hours after administration of drugs, brain regions from mice were collected. Western blot analysis of proBDNF and β -actin in the brain regions (PFC, NAc, striatum, CA1, CA3, DG) was performed. The values are expressed as a percentage of that of control mice. Representative data of Western blot analyses of proBDNF and β -actin in the mouse brain regions. Data are shown as mean $\pm$ S.E.M. (n = 6 - 8). N.S.: Not significant. (g-l): Western blot analysis of TrkB and β -actin in the brain regions (PFC, NAc, striatum, CA1, CA3, DG) was performed. Representative data of Western blot analyses of TrkB, and β -actin in the mouse brain regions. The values are expressed as a percentage of that of control mice. Data are shown as mean $\pm$ S.E.M. (n = 6 - 8). N.S.: Not significant.

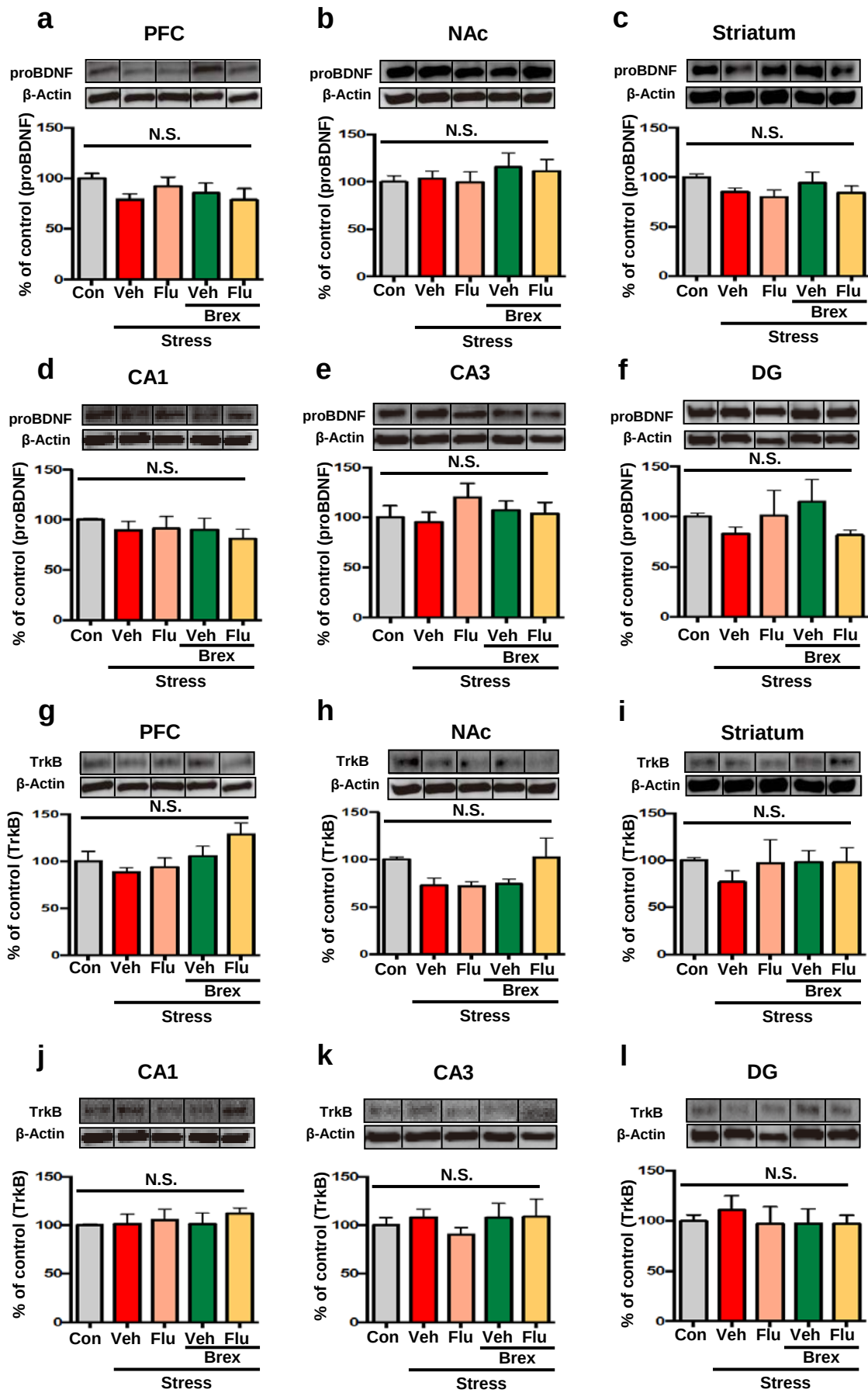
Supplemental Figure 3. Western blot of proteins (p-TrkB, TrkB, proBDNF, BDNF, beta-actin) in the brain regions

(a): PFC, (b): Nac, (c): Striatum, (d): CA1, (e): CA3, (f): DG
The red line marked blots were selected in the Figure 2.

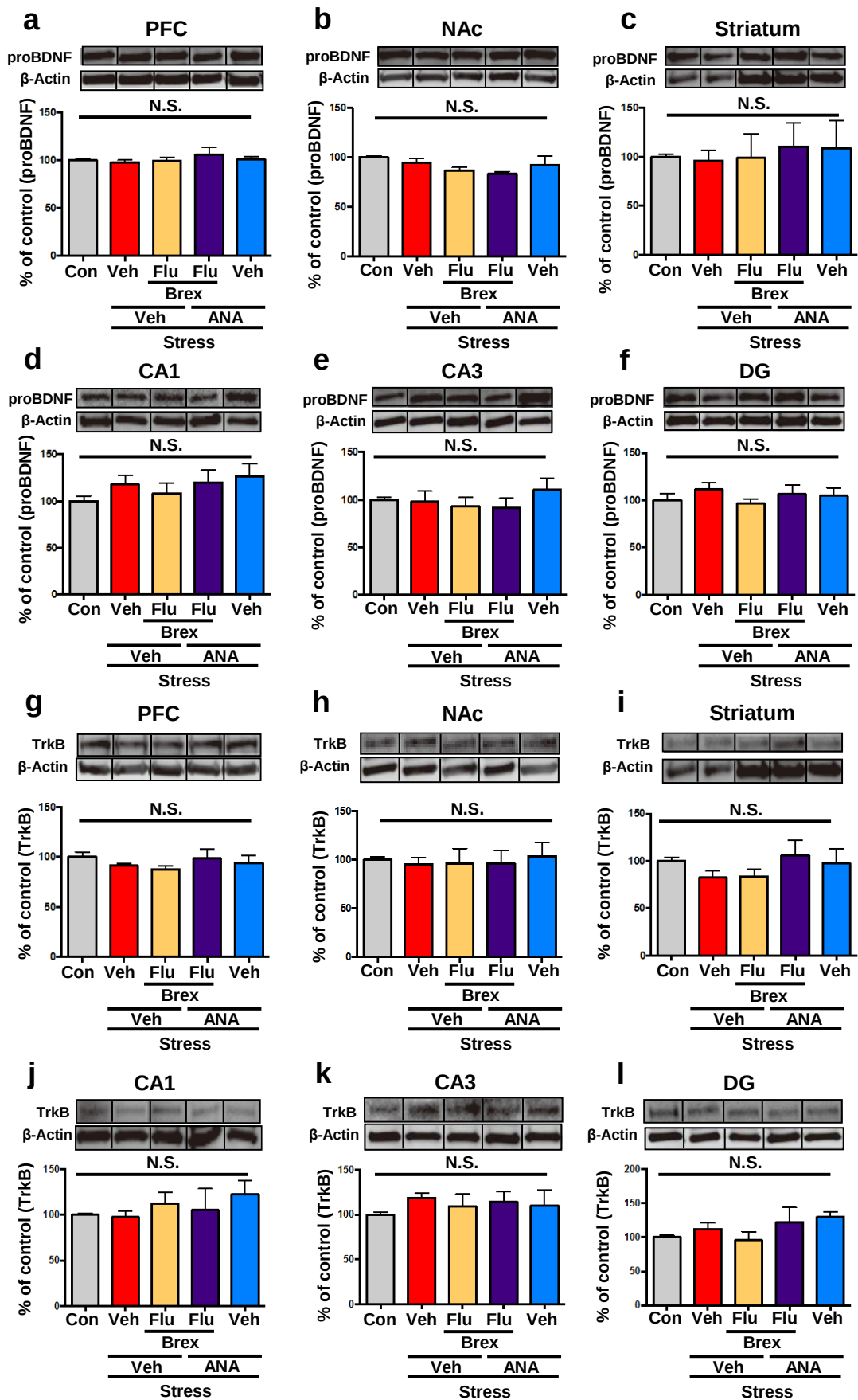
Supplemental Figure 4. Western blot of proteins (p-TrkB, TrkB, proBDNF, BDNF, beta-actin) in the brain regions

(a): PFC, (b): Nac, (c): Striatum, (d): CA1, (e): CA3, (f): DG
The red line marked blots were selected in the Figure 5.

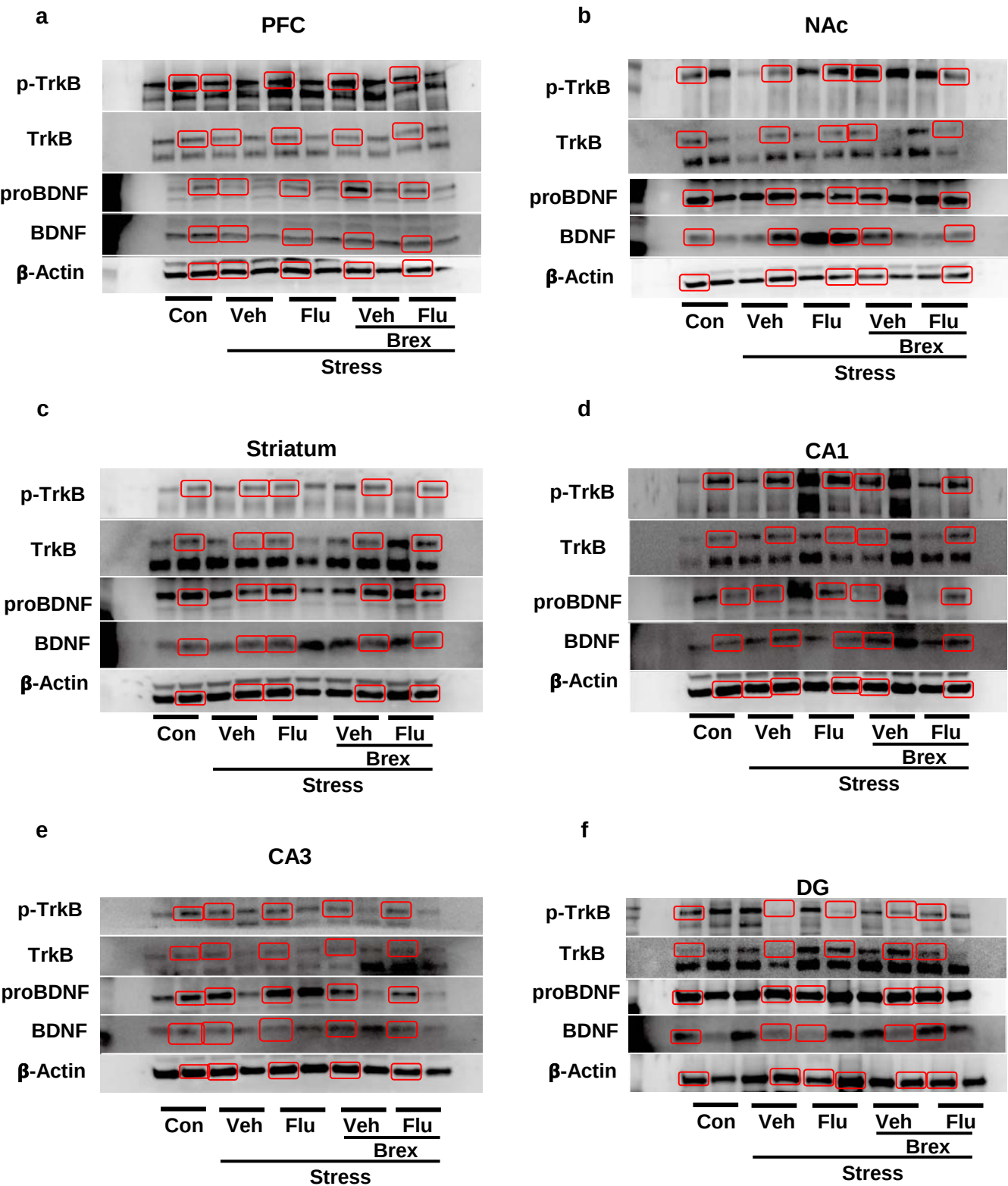
Supplemental Figure 1



Supplemental Figure 2



Supplemental Figure 3



Supplemental Figure 4

