Supplementary Material

Material and Methods

Sample preparation

All mice were sacrificed under CO_2 anesthesia through removal of blood from an abdominal vein. A partial blood sample was used for complete blood count analysis using hematological autoanalyzer (Exigo EOS Vet, Boule Medical AB, Sweden).

Results

Body weights

The body weights between sham and ADX groups were not significantly changed during 7 days (Supplementary Figure 2).

Hematological parameters

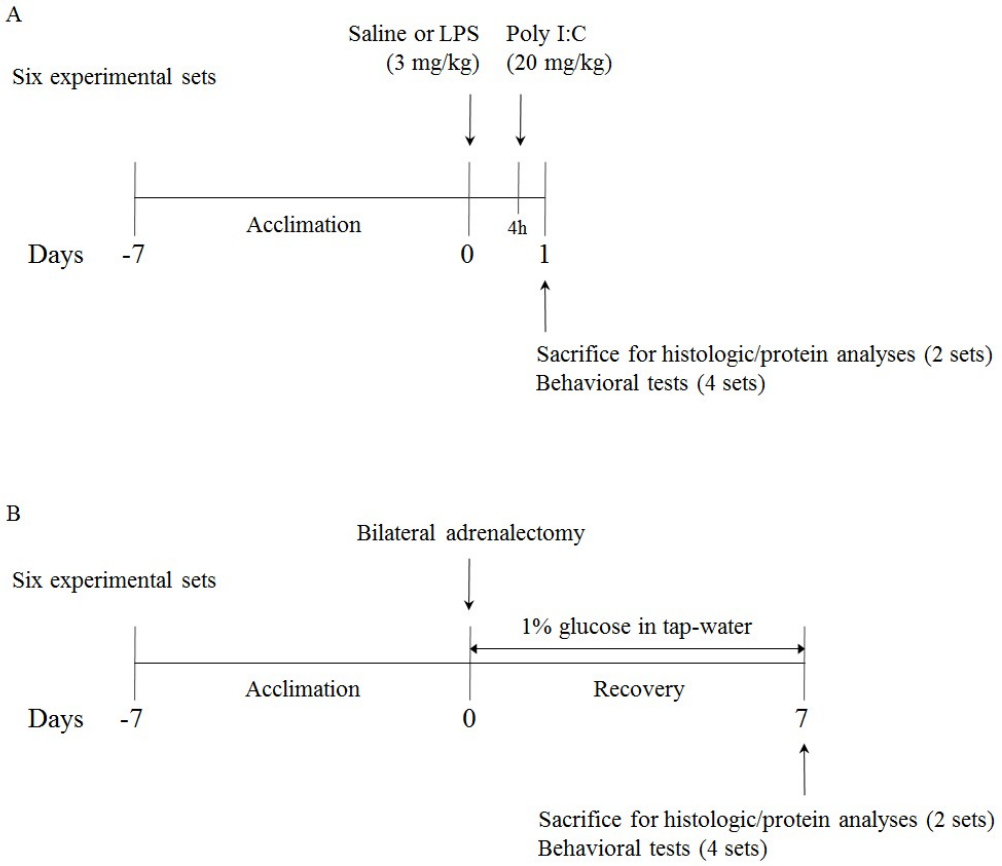
The blood cell population was changed by LPS and poly I:C injection. The LPS significantly reduced absolute WBC count [$F(3,20) = 7.840$, $p < 0.01$] compared with the vehicle ($p < 0.05$ or $p < 0.01$). Its components including lymphocyte [$F(3,20) = 22.859$, $p < 0.01$], monocyte [$F(3,20) = 8.266$, $p < 0.01$], and granulocyte [$F(3,20) = 20.796$, $p < 0.01$] were significantly altered by LPS and poly I:C injection ($p < 0.05$ or $p < 0.01$, Supplementary Table 1). Absolute and percentage of blood cells were not affected by ADX compared with both the vehicle and sham group.

Supplementary Table S1. Hematological parameters in the blood of mice.

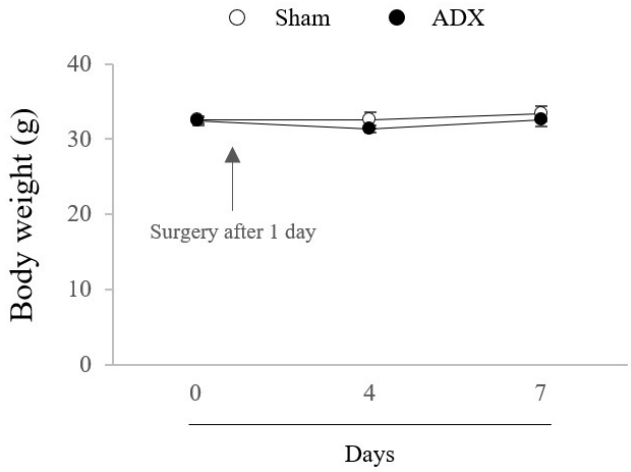
Treatment	Vehicle	LPS	Poly I:C	Sham	ADX
RBC (10^{12}/L)	7.98 ± 0.27	7.79 ± 0.46	7.69 ± 0.49	7.36 ± 0.31	7.79 ± 0.44
Hemoglobin (g/dL)	14.42 ± 0.29	14.05 ± 0.79	14.01 ± 0.84	12.21 ± 0.35	14.12 ± 1.01
WBC (10^{9}/L)	14.28 ± 2.29	5.53 ± 1.73**	12.86 ± 2.44	13.51 ± 2.63	11.65 ± 5.69
Lymphocyte (%)	65.85 ± 2.64	31.45 ± 12.83**	43.50 ± 14.11*	66.26 ± 4.00	70.92 ± 6.19
Monocyte (%)	6.50 ± 0.28	10.60 ± 2.90*	8.76 ± 1.51*	7.38 ± 0.51	6.70 ± 0.71
Granulocyte (%)	27.65 ± 2.77	57.95 ± 12.22**	47.74 ± 12.99*	26.36 ± 3.55	22.38 ± 5.59

Data are expressed as the mean ± SD (n = 6) *P < 0.05, **P < 0.01 compared with the vehicle group. RBC, red blood cell; WBC, white blood cell

Supplementary Figures

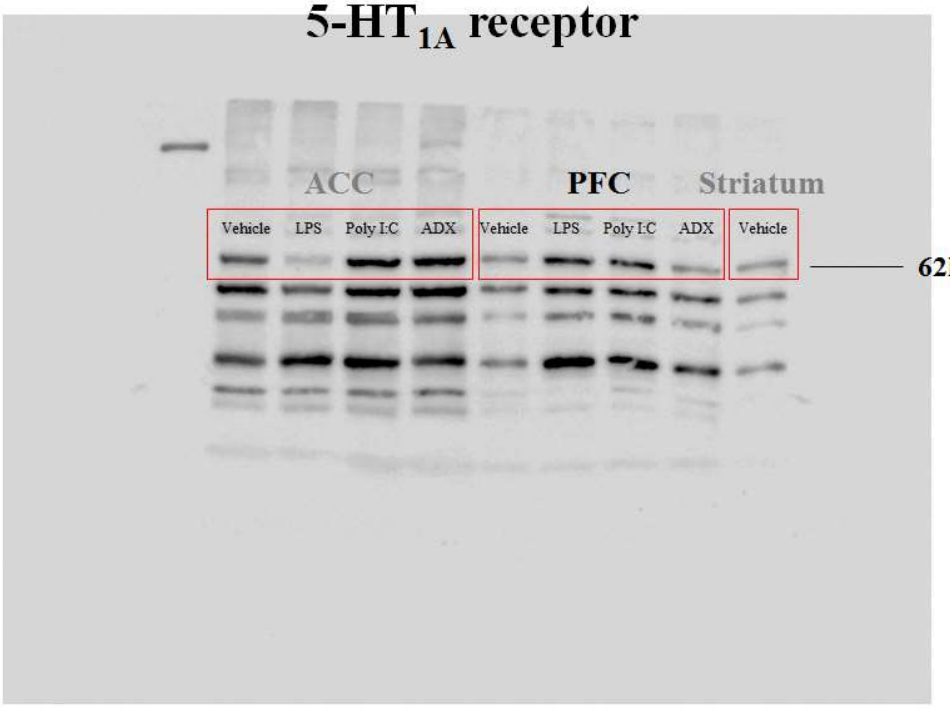


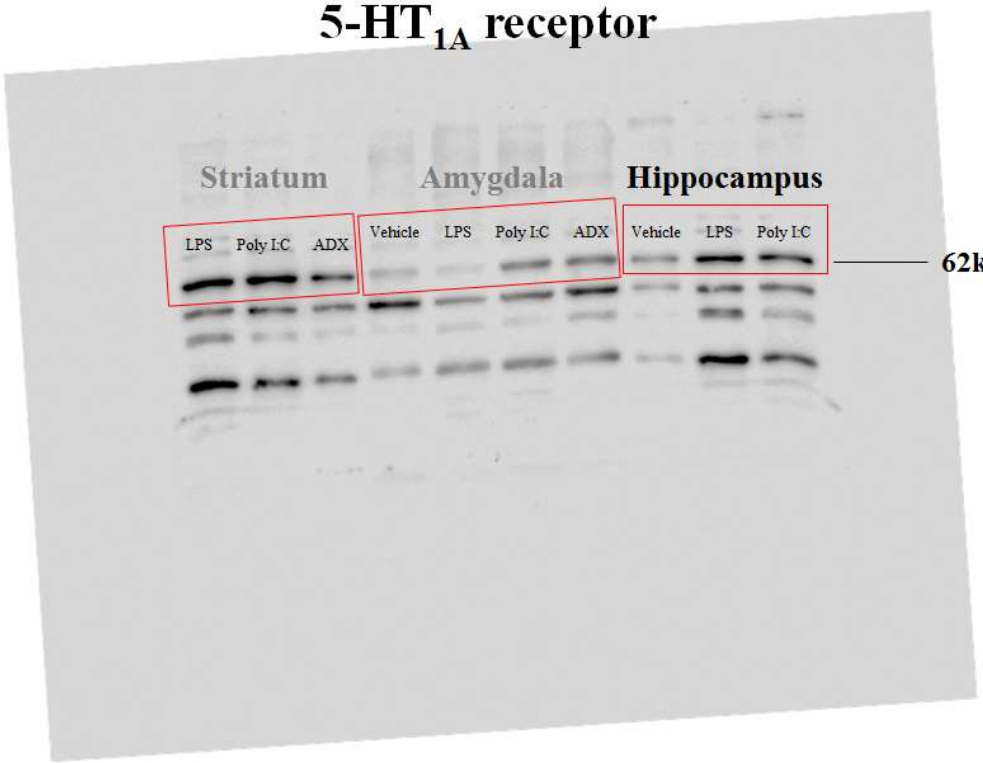
Supplementary Figure S1. Experimental schedule. ICR mouse (8 weeks old) was injected to LPS (3 mg/kg for 24 h) or poly I:C (20 mg/kg for 4 h) intraperitoneally (A). Other mice were subjected to bilateral adrenalectomy and then they were allowed to rest with 1% glucose for 7 days (B).

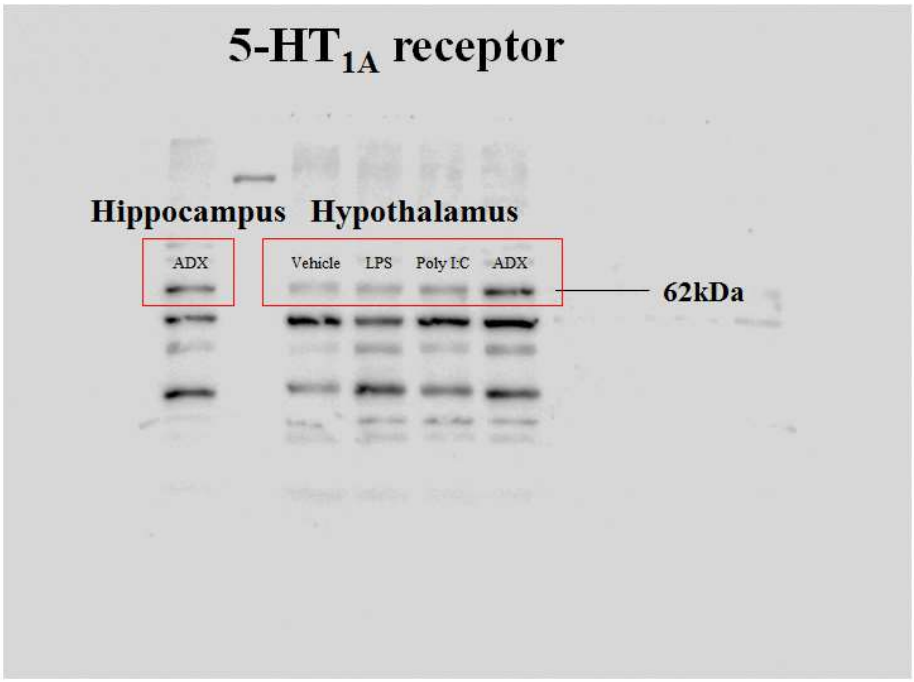


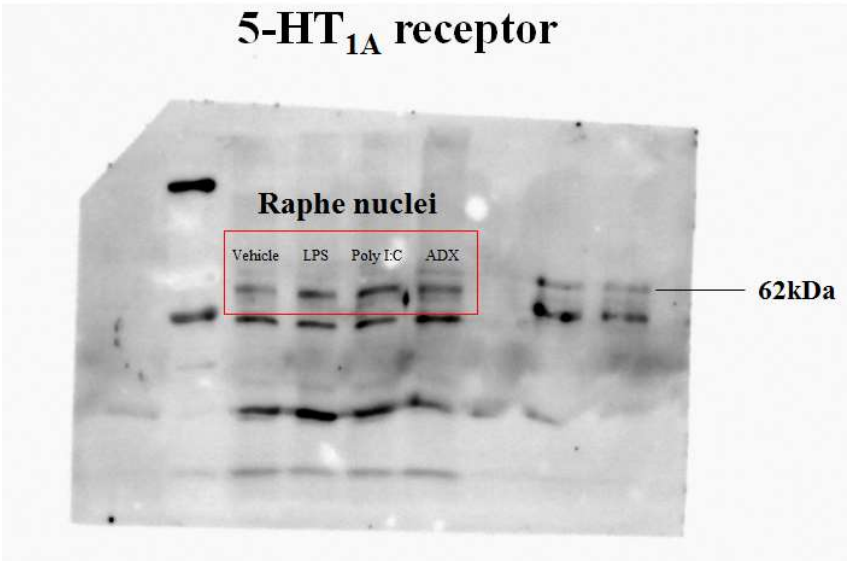
Supplementary Figure S2. Changes in body weight of the sham or ADX mice during recovery. The body weight of sham (open circles) and ADX (filled circles) was measured during 7 days.

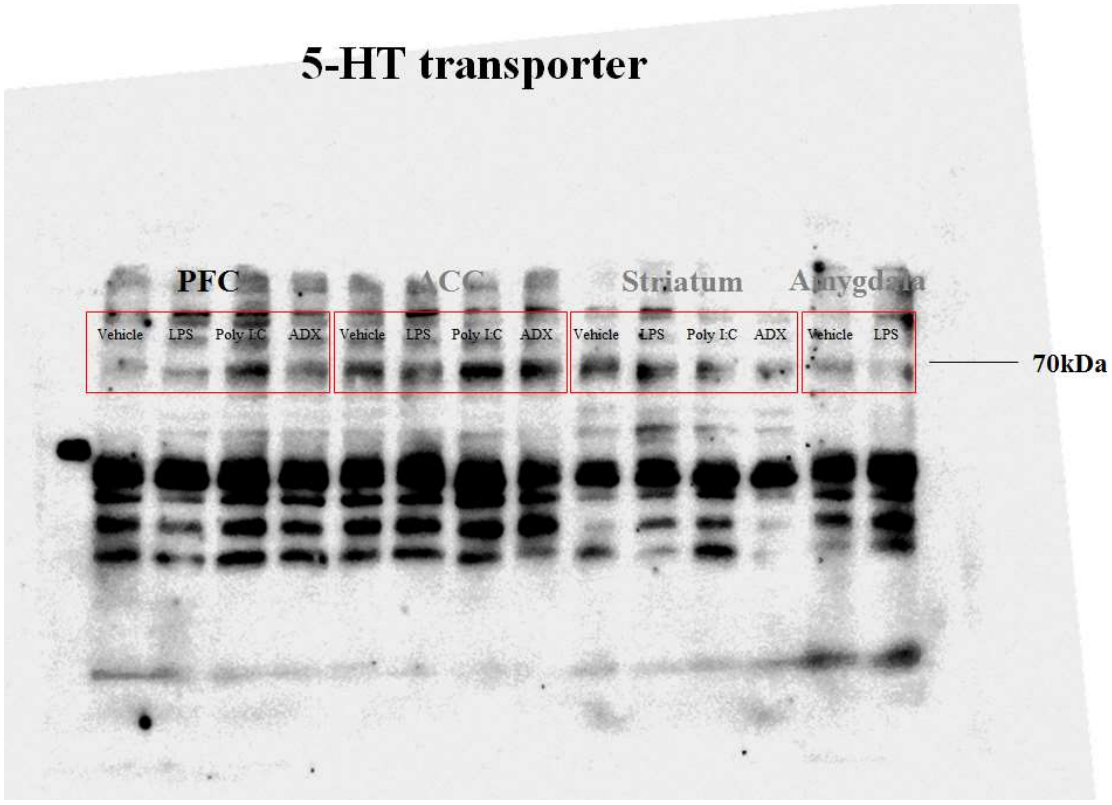
Figure 5A full-length gel and blots






5-HT1A receptor
Hippocampus
Hypothalamus
ADX
Vehicle
LPS
Poly I:C
ADX
62kDa


5-HT1A receptor
Raphe nuclei
Vehicle
LPS
Poly I:C
ADX
62kDa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PFC
ACC
Striatum
Amygdala
Vehicle
LPS
Poly I:C
ADX
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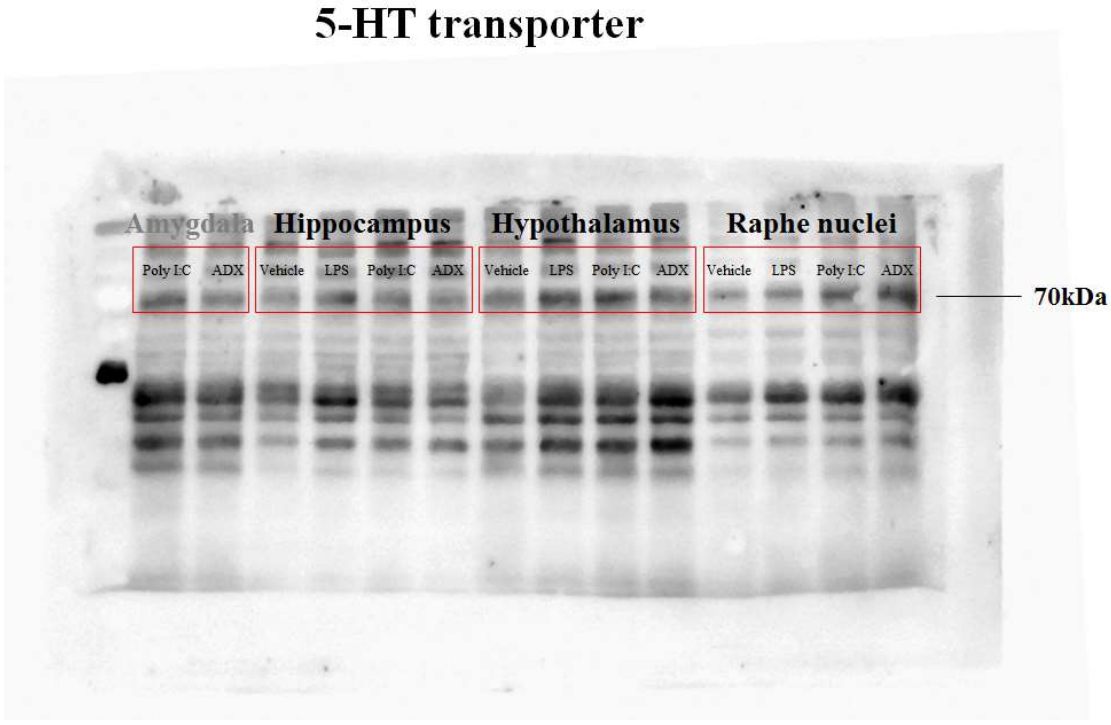
ADX
Vehicle
LPS
Poly I:C
ADX
Vehicle
LPS
70kDa


5-HT transporter
Amygdala
Hippocampus
Hypothalamus
Raphe nuclei
Poly I:C
ADX
Vehicle
LPS
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LPS
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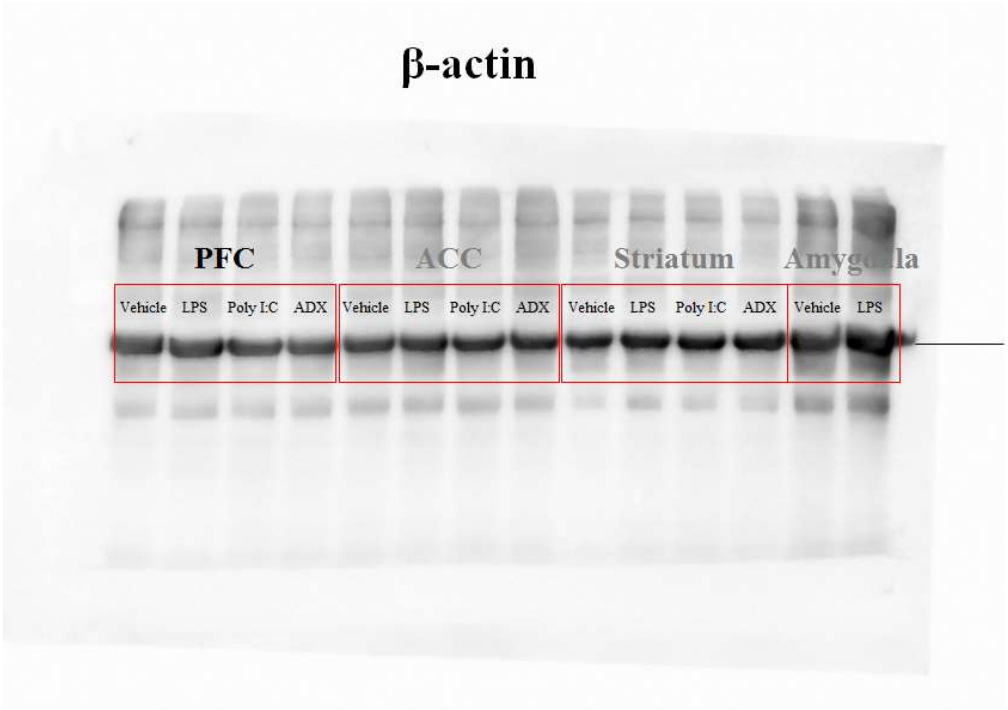
Poly I:C
ADX
70kDa


β-actin
PFC
ACC
Striatum
Amygdala
Vehicle
LPS
Poly I:C
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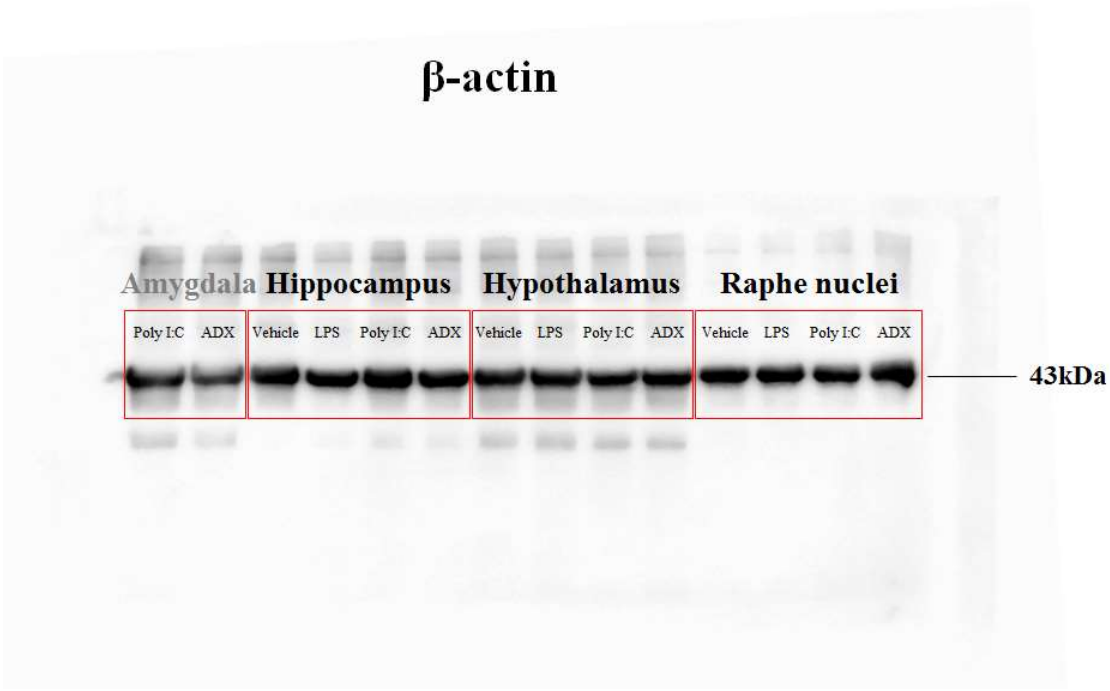
Vehicle
LPS
Poly I:C
ADX
Vehicle
LPS
43kDa


β-actin
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Poly I:C
ADX
Vehicle
LPS
Poly I:C
ADX
43kDa