

Supplementary Tables

Monoamine	Striatum		Hippocampus		Frontal cortex	
	WT	Cdk5 cKO	WT	Cdk5 cKO	WT	Cdk5 cKO
DA	99.6 ± 2.75	90.2 ± 9.29	0.08 ± 0.01	0.16 ± 0.01 **	1.18 ± 0.34	1.22 ± 0.65
DOPAC	4.80 ± 0.16	4.89 ± 0.31	0.09 ± 0.00	0.14 ± 0.01	0.33 ± 0.00	0.38 ± 0.09
HVA	9.59 ± 0.24	9.26 ± 0.61	0.18 ± 0.01	0.29 ± 0.03 *	0.68 ± 0.06	0.70 ± 0.11
3-MT	3.99 ± 0.17	4.12 ± 0.36	0.04 ± 0.00	0.06 ± 0.00	0.82 ± 0.36	0.59 ± 0.16
5-HT	3.27 ± 0.15	3.40 ± 0.14	3.35 ± 0.06	3.20 ± 0.18	1.94 ± 0.06	1.73 ± 0.16

Supplementary Table 1. Monoamine levels in striatum, hippocampus and frontal cortex of Cdk5 cKO and control mice. High-performance liquid chromatography (HPLC) analysis of striatal, hippocampal and frontal cortex tissue from Cdk5 cKO and control mice (WT $n = 4$; cKO $n = 6$). DA, dopamine; DOPAC, 3,4-dihydroxyphenylacetic acid; HVA, homovanilic acid; 3-MT, 3-methoxytyramine; 5-HT, serotonin. All values are indicated in nM per gram of tissue. All data shown are means ± s.e.m., * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Target/Ab Name	Company/Source	Catalogue number /Reference	Remark
Flag tag	<i>Cell Signaling Technology</i>	#8146	Mab
phospho-CREB (Ser133)	<i>Cell Signaling Technology</i>	#9196	Mab
total CREB	<i>Cell Signaling Technology</i>	#9197	Rab
phospho-DARPP-32 (Thr34)	<i>Cell Signaling Technology</i>	#12438	Rab
phospho-DARPP-32 (Thr75)	<i>Cell Signaling Technology</i>	#2301	Rab
total DARPP-32	Hugh C. Hemmings	Hemmings & Greengard, <i>J Neurosci</i> 6, 1469-1481 (1986)	Mab
Cdk5	<i>PhosphoSolutions</i>	308-CDK5	Mab
phospho-GluR1 (Ser845)	<i>PhosphoSolutions</i>	p1160-845	Rab
total GluR1	<i>PhosphoSolutions</i>	895-GluR1	Mab
phospho-tyrosine hydroxylase (Thr40)	<i>PhosphoSolutions</i>	p1580-40	Rab
total tyrosine hydroxylase	<i>PhosphoSolutions</i>	2025-THRAB	Rab
Cdk5 (C-8)	<i>Santa Cruz</i>	sc-173	Rab
p35 (C-19)	<i>Santa Cruz</i>	sc-820	Rab
FITC	<i>Abcam</i>	ab19224	Goat ab
NeuN	Millipore	MAB377	Mab
PDE4A	Miles D. Housley	Huston et al, <i>J Biol Chem</i> 271, 31334-31344 (1996); Huston et al, <i>Biochem J</i> 328 (Pt2), 549-558 (1997); Bolger et al, <i>Biochem J</i> 328 (Pt2), 539-548 (1997).	Rab
PDE4B	Miles D. Housley		Sheep ab
PDE4D	Miles D. Housley		Sheep ab
phospho-PDE4 (Cdk5)	James A. Bibb		Rab
phospho-PDE4 (PKA)	James A. Bibb		Rab
phospho-synapsin (Ser9)	Sigma	S8067	Rab
Synapsin	Sigma	S193	Rab
β -actin	Sigma	A2228	Mab
GAPDH	Sigma	G9545	Rab

Supplementary Table 2. Primary antibodies used for immunoblotting and/or immunocytochemistry.