

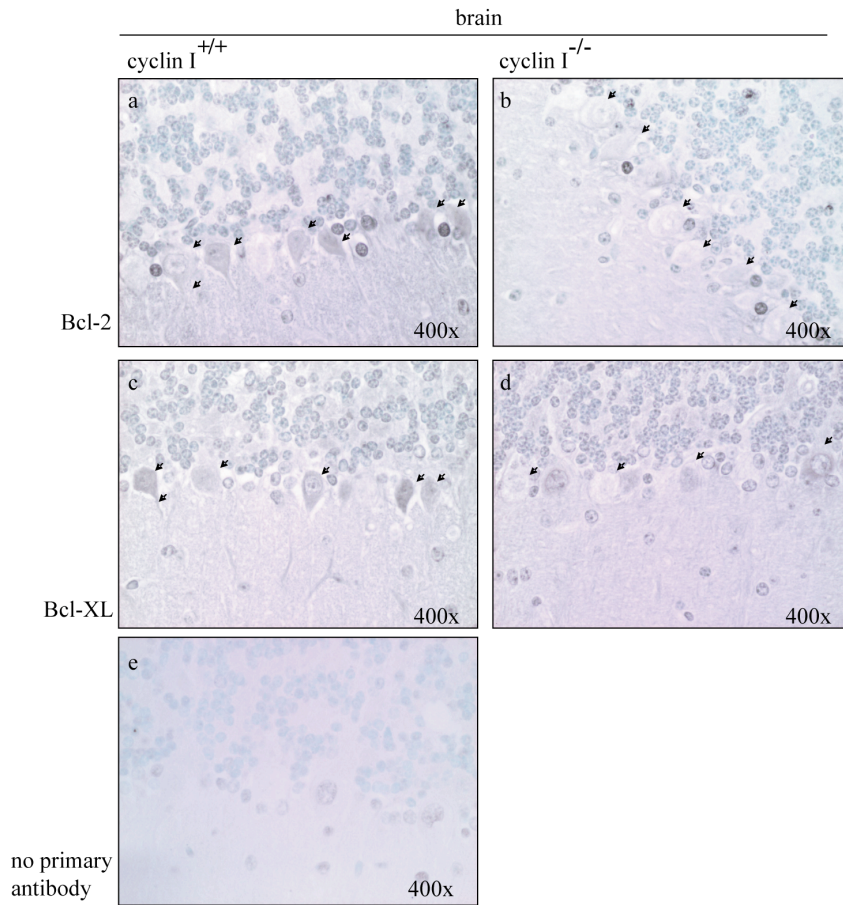
Figure S1

Figure S1. *Cyclin I regulates specific Bcl-2 family proteins in brain tissue.*

Immunostaining for Bcl-2 (a) and Bcl-XL (c) was detected in the cerebellum of cyclin I wildtype mice. In contrast, staining for Bcl-2 (b) and Bcl-XL (d) was markedly decreased in brain tissue from cyclin I null mice (representative examples indicated by arrows).

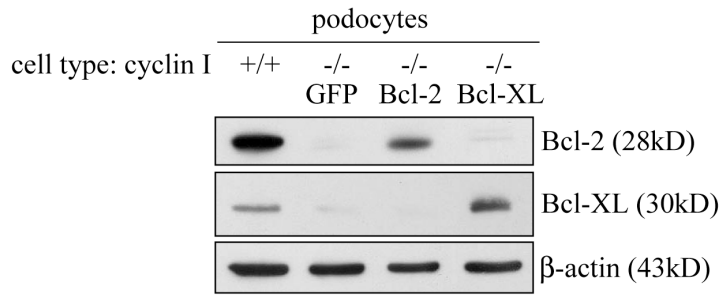
Figure S2

Figure S2. Restoring *Bcl-2* and *Bcl-XL* expression in cyclin I null podocytes.

Cyclin I null podocytes were stably infected with retroviral plasmids encoding human Bcl-2, Bcl-XL or GFP. After 14 days of growth restriction protein lysates were obtained and analyzed by Western blot for expression of Bcl-2, Bcl-XL and β -actin.

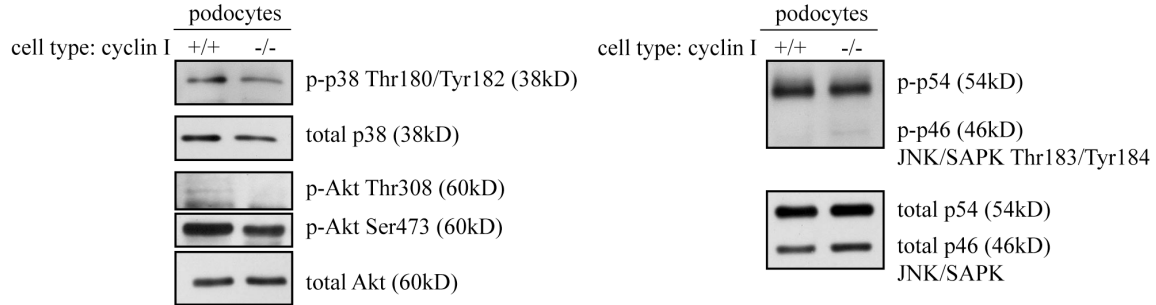
Figure S3

Figure S3. Cyclin I does not regulate activation of p38, JNK/SAPK or AKT.

Protein was harvested from cultured wildtype and cyclin I null podocytes and analyzed by Western blot and subsequent immunostaining for p-p38 Thr180/Tyr182, p-Akt Thr308 and Ser473 and pJNK/SAPK Thr 183/Tyr184. There were no obvious differences in p38, Akt or JNK/SAPK activation in the absence of cyclin I.

Table S1: Primary Antibodies					
Target Protein	Antibody	Dilution (WB)	Dilution (IP)	Dilution (IHC/IF)	Source
β-actin	ab6276	1:100,000	-	-	Abcam
p-AKT (Thr308)	CST-2965	1:1,000	-	1:150	Cell Signaling
p-AKT (Ser473)	CST-4060	1:1,000	-	-	Cell Signaling
total Akt	CST-4691	1:1,000	-	-	Cell Signaling
Bax	CST-2772	1:1,000	-	-	Cell Signaling
Bcl-2	CST-2876	1:1,000	-	1:150	Cell Signaling
Bcl-XL	CST-2762	1:1,000	-	1:150	Cell Signaling
caspase 3	CST-9665	1:1,000	-	-	Cell Signaling
cleaved caspase 3 (Asp175)	CST-9664	-	-	1:200	Cell Signaling
Cdk5	MS-1059-P1	1:500	-	-	Thermo Scientific
cyclin I	15-288-22274	-	15μg	-	GenWay Biotech
p-ERK1/2 (Thr202/Tyr204)	CST-9101	1:1,000	-	1:150	Cell Signaling
total ERK1/2	CST-9102	1:1,000	-	-	Cell Signaling
GAPDH	ab8245	1:3,000	-	-	Abcam
HA-tag	sc-7392	1:200	2μg	-	Santa Cruz
p-JNK/SPAK (Thr183/Tyr184)	CST-4688	1:1,000	-	-	Cell Signaling
total JNK/SAPK	CST-9258	1:1,000	-	-	Cell Signaling
p-MEK1/2 (Ser217/221)	CST-9154	1:1,000	-	-	Cell Signaling
total MEK ½	CST-9154	1:1,000	-	-	Cell Signaling
myc-tag	CST-2276	1:1,000	-	-	Cell Signaling
myc-tag	Pro-Found 23620	-	5μg	-	Thermo Fisher
myc-tag	9E10	-	2μg	-	Santa Cruz
Nephrin	RDI-PROGN2	1:200	-	1:100	Fitzgerald
p-p38 (Thr180/Tyr182)	CST-9215	1:1,000	-	-	Cell Signaling
total p38	CST-9212	1:1,000	-	-	Cell Signaling
p-A-Raf (Ser299)	CST-4431	1:1,000	-	-	Cell Signaling
total A-Raf	CST-4432	1:1,000	-	-	Cell Signaling
p-B-Raf (Ser445)	CST-2696	1:1,000	-	-	Cell Signaling
total B-Raf	CST-9434	1:1,000	-	-	Cell Signaling
p-c-Raf (Ser338)	CST-9427	1:1,000	-	-	Cell Signaling
p-c-Raf (Ser289/296/301)	CST-9431	1:1,000	-	-	Cell Signaling
p-c-Raf (Ser259)	CST-9421	1:1,000	-	-	Cell Signaling
total c-Raf	CST-9422	1:1,000	-	-	Cell Signaling
Synaptopodin	RDI-PRO65194	-	-	1:1	Fitzgerald

Table S2: siRNAs			
siRNA	Target mRNA	Strand sequence	Source
AM16704/160139	Cdk5	5'-GCUAGUUAGAACCUCGUtt-3'	Ambion
AM16704/60726	Cdk5	5'-GGACCUGAAGAAAUAUUUCtt-3'	Ambion
4390771/s63800	p35	5'-CAAGUGUUCUCUGACUUGAtt-3'	Ambion
4390771/s63801	p35	5'-GGACCAGGGUUUCAUCACAtt-3'	Ambion
4390771/s63802	p35	5'-GGUAGAGAGCUGUAAGGAAtt-3'	Ambion
AM4611	non-targeting		Ambion

Table S3: qPCR primer probes (FAM reporter dye)			
Primer probe	Target mRNA	Strand sequence	Source
Mm00477631_m1	Bcl-2	ATAACGGAGGCTGGGATGCCTTTGT	Applied Biosystems
Mm00437783_m1	Bcl-XL	GAACGGCGGCTGGGACACTTTTGTG	Applied Biosystems
4352933E	β -actin		Applied Biosystems
Mm00432437_m1	Cdk5	GAAGATTGGGGAAGGCACCTATGGA	Applied Biosystems
Mm00438148_s1	p35	ACCTTGCGCGAACCCAAAAGATGCA	Applied Biosystems