

Table S5

	Density		Volume	
	CAP1-CTR	CAP1-KO	CAP1-CTR	CAP1-KO
	0.42±0.02	0.34±0.02 -19% (P<0.01) to CAP1-CTR	0.21±0.01	0.27±0.01 +29% (P<0.01) to CAP1-CTR
+ WT- Cofilin1	0.45±0.02 ns (P=0.399) to CAP1-CTR	0.32±0.03 ns (P=0.512) to CAP1-KO -24% (P<0.001) to CAP1-CTR	0.19±0.01 ns (P=0.311) to CAP1-CTR	0.28±0.01 ns (P=0.713) to CAP1-KO +33% (P<0.001) to CAP1-CTR
	Cofilin1-CTR		Cofilin1-KO	
-	0.40±0.01	0.47±0.01 +18% (P<0.001) to Cofilin1-CTR	0.20±0.01	0.27±0.01 +35% (P<0.001) to Cofilin1-CTR
+ WT- CAP1	0.40±0.01 ns (P=0.880) to Cofilin1-CTR	0.47±0.01 ns (P=0.945) to Cofilin1-KO +18% (P<0.001) to Cofilin1-CTR	0.21±0.01 ns (P=0.748) to Cofilin1-CTR	0.26±0.01 ns (P=0.166) to Cofilin1-KO +30% (P<0.001) to Cofilin1-CTR

N ≥ 250 spines per neuron, five neurons per group and experiment, three independent experiments