

Table S1.

A

Quantification of dendrite morphology for apical and basal dendritic branch number in <i>in utero</i> electroporated 50 μ m sections.								
<u>Experimental condition</u>	Number of branches per neuron (mean $\pm$ s.e.m.)							
	Basal				Apical			
	Total	Primary	Secondary	Tertiary	Total	Primary	Secondary	Tertiary
control	20.3 $\pm$ 1.4	5.3 $\pm$ 0.5	7.2 $\pm$ 0.6	8.5 $\pm$ 0.7	16.1 $\pm$ 1.6	1.1 $\pm$ 0.08	6.2 $\pm$ 0.7	8.7 $\pm$ 0.7
Epac2-RNAi	11.7 $\pm$ 1.04	4.3 $\pm$ 0.4	5.1 $\pm$ 0.5	2.8 $\pm$ 0.5	14.0 $\pm$ 0.9	1.1 $\pm$ 0.09	6.1 $\pm$ 0.3	7.9 $\pm$ 0.7

B

Quantification of dendrite morphology for apical and basal dendritic branch length in <i>in utero</i> electroporated 50 μ m sections.								
<u>Experimental condition</u>	Dendritic length (μ m) (mean $\pm$ s.e.m.)							
	Basal				Apical			
	Total dendritic length (μ m)	Average branch length (μ m)			Total dendritic length (μ m)	Average branch length (μ m)		
		Primary	Secondary	Tertiary		Primary	Secondary	Tertiary
control	596.3 $\pm$ 48.2	19.8 $\pm$ 2.8	31.3 $\pm$ 2.6	35.7 $\pm$ 3.8	508.4 $\pm$ 38.5	59.5 $\pm$ 5.0	31.6 $\pm$ 3.1	30.8 $\pm$ 2.2
Epac2-RNAi	269.9 $\pm$ 20.6	22.9 $\pm$ 2.6	23.8 $\pm$ 2.4	16.1 $\pm$ 2.2	484.8 $\pm$ 33.7	67.2 $\pm$ 10.2	40.4 $\pm$ 4.6	29.9 $\pm$ 2.2