

Table S3.

Quantification of apical and basal dendritic branch length in <i>in utero</i> electroporated paired neurons in 300 μm sections.								
<u>Individual Paired cell data</u>	Dendritic length (μm)							
	Basal				Apical			
	Total dendritic length per neuron	Average branch length per neuron			Total dendritic length per neuron	Average branch length per neuron		
		Primary	Secondary	Tertiary		Primary	Secondary	Tertiary
control	343.5	25.1	27.0	27.3	694.2	55.6	29.9	40.5
Epac2-RNAi	261.9	29.8	22.3	16.0	641.7	52.3	43.6	58.4
control	598.7	13.4	27.6	34.3	536.2	23.9	35.1	34.9
Epac2-RNAi	179.4	11.3	21.7	17.7	539.2	19.0	42.6	55.7
control	1218.3	25.8	55.4	54.4	493.3	45.7	61.5	65.6
Epac2-RNAi	566.6	18.9	35.2	39.7	518.8	49.1	43.4	50.9
control	670.5	25.9	46.3	42.2	737.9	20.1	28.8	78.0
Epac2-RNAi	279.9	32.2	35.5	30.7	494.9	25.6	23.3	55.9
control	731.3	15.8	48.4	55.3	914.7	36.4	29.7	50.4
Epac2-RNAi	415.3	16.9	37.6	41.3	921.1	43.1	35.7	43.8
<u>Combined data</u>	Average dendritic length (μm) (mean $\pm$ s.e.m)							
	Basal				Apical			
	Average Total dendritic length	Average branch length (μm)			Average Total dendritic length	Average branch length (μm)		
		Primary	Secondary	Tertiary		Primary	Secondary	Tertiary
control	712.4 $\pm$ 142.7	21.2 $\pm$ 2.7	40.9 $\pm$ 5.8	42.7 $\pm$ 5.5	675.3 $\pm$ 75.5	36.3 $\pm$ 6.6	37.0 $\pm$ 6.2	53.9 $\pm$ 7.9
Epac2-RNAi	340.6 $\pm$ 68.0	21.8 $\pm$ 3.9	30.4 $\pm$ 3.5	29.1 $\pm$ 5.3	623.5 $\pm$ 78.6	37.8 $\pm$ 6.5	37.7 $\pm$ 3.9	52.9 $\pm$ 2.6