

S1 Table. Repeat times and analyzed cell numbers.

	Condition	Number of repeat (m)	Number in repeat (n)	Number of analyzed cells
SEM (S2 Fig)	NIF	3	6	12
	Each of rest	6	12	34
MT in FL/PC12 (confocal, Fig1)	sham	04/03	06/05	39 / 42
	MF	04/03	06/06	45 / 31
	EGF	04/03	05/05	39 / 42
	Each of rest	04/03	04/04	40 / 35
PC12 differentiation (microscopy, S1 Fig)	Sham	3	6	>200
	MF	3	6	>200
EGFR clustering (FRET, antibody, Fig4)	Each of all	3	6	/
EGFR clustering (FRET, EGF, Fig 4)	Each of all	3	6	/
EGFR in FL/PC12 (confocal, Fig 3)	sham	6	11	>70
	MF	5	9	>70
	Each of rest	3	6	>50
EGFR WB (Fig 5)	Each of all	3	5	$\sim 2 \times 10^6$
Ca²⁺ in FL/PC12 (confocal, Fig 6)	Sham	04/03	07/06	>45
	MF	04/03	08/06	>45
	Each of rest	04/03	05/04	>35
CaV1.2 (confocal, Fig 7)	Each of all	4	8	>50
p-CaV1.2/p-IP3R WB (Fig 7)	Each of all	3	6	$\sim 3 \times 10^6$
CaV1.2 WB (Fig 7)	Each of all	4	7	$\sim 3 \times 10^6$
p-PKC/PKC/p-Marcks/Marcks/p-Tau/Tau/GAPDH WB (Fig 8)	Each of all	3	6	$\sim 3 \times 10^6$
CaM/p-CAMKII (Fig 8)	Sham	3	4	$\sim 2 \times 10^6$
	Each of rest	3	6	$\sim 3 \times 10^6$
Tau (confocal, Fig 8)	Each of all	3	6	>60
Vinculin (confocal, Fig 2)	Each of all	3	6	>60
[Ca²⁺]_i (Flow cytometry, Fig 6)	Sham	6	30	$\sim 3 \times 10^5$
	Each of rest	3	10	$\sim 1 \times 10^5$

~: about.

m: the number of independent experimental trials carried out for each biological target.

n: the number of total parallel samples.