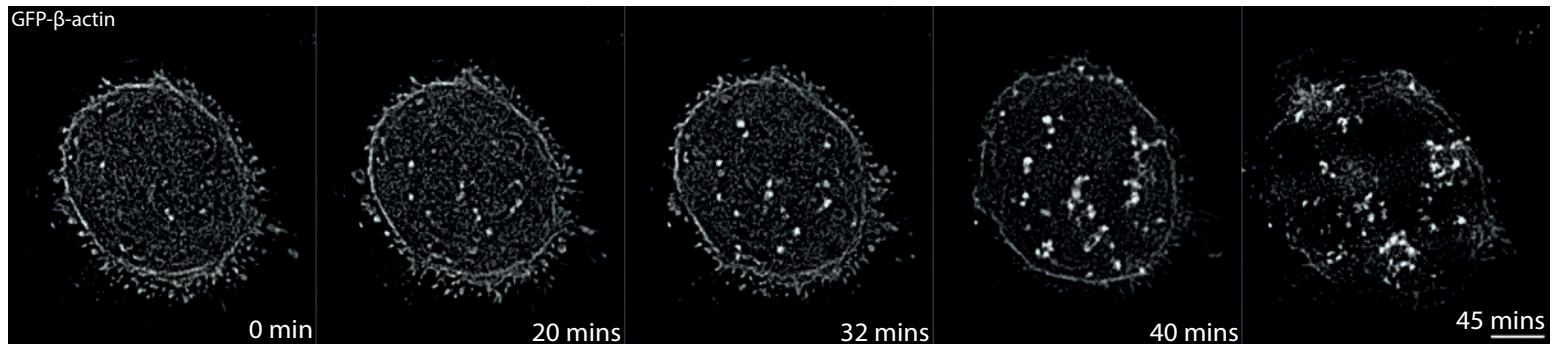
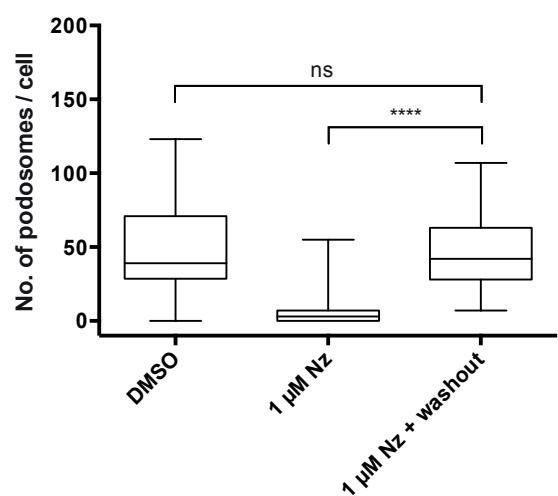
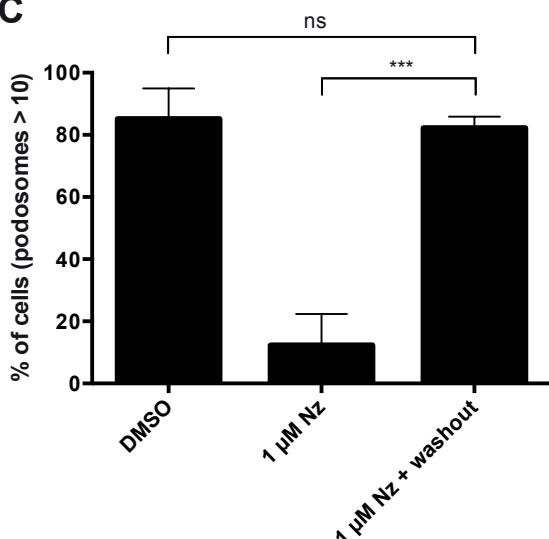
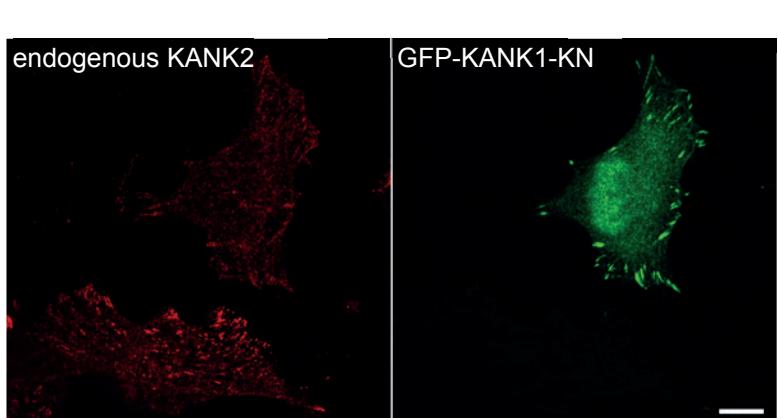
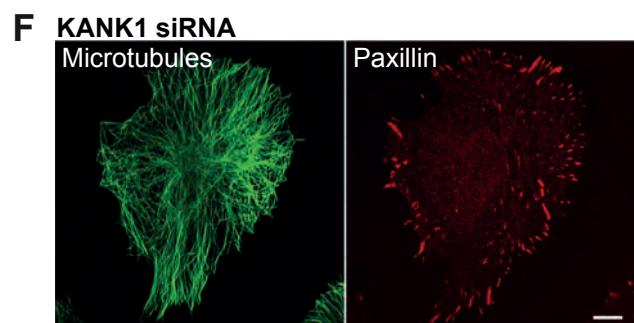
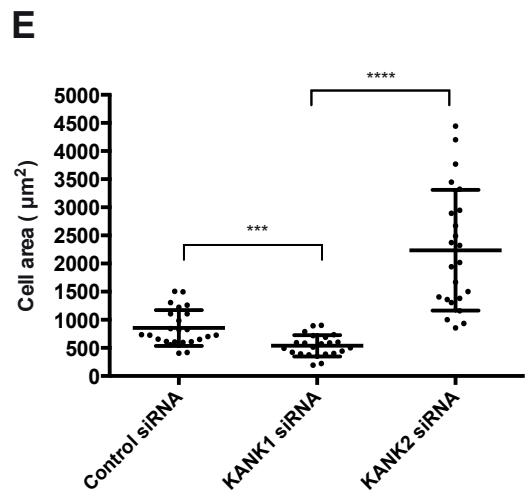
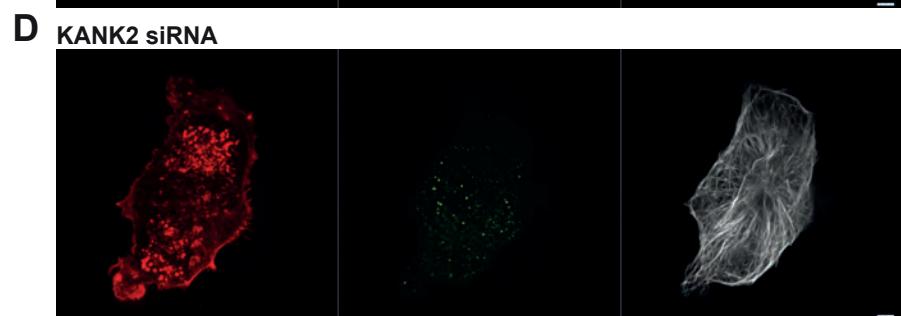
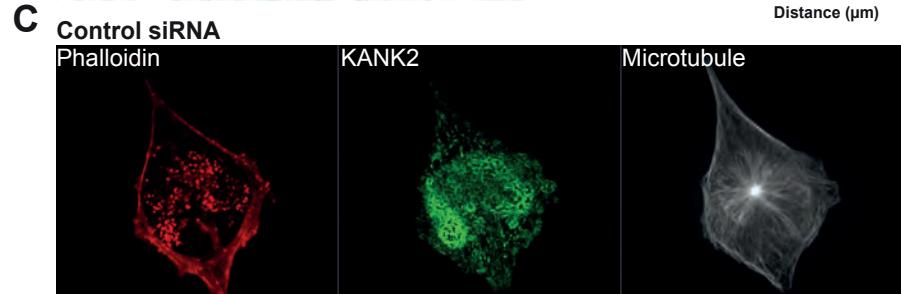
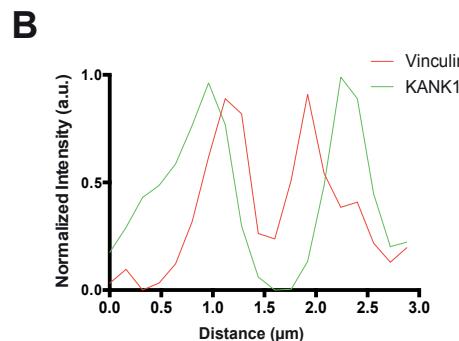
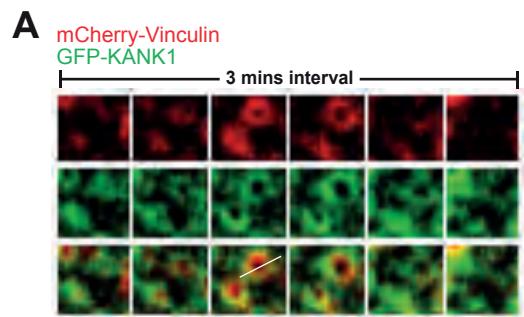


A**B****C**



Talin-binding Liprin-binding

KANK1

Full length KANK1 (1-1352)

KANK1-CC-Cter (244-1352)

KANK1-KN (30-68)

KANK1-ΔANKR (1-1149)

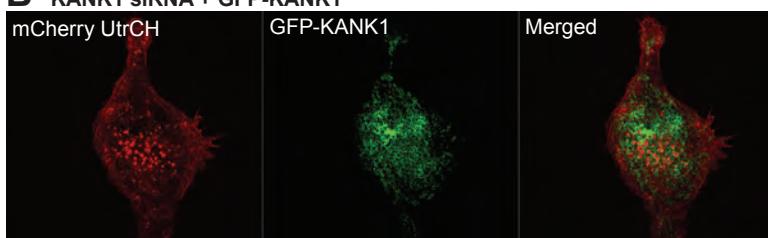
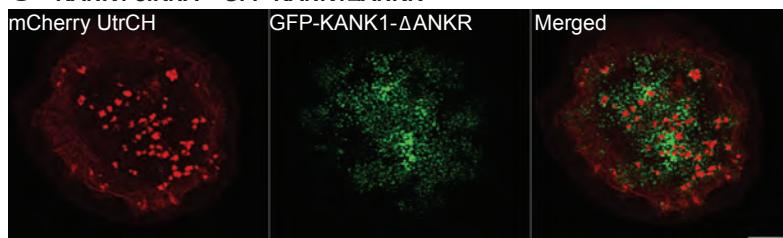
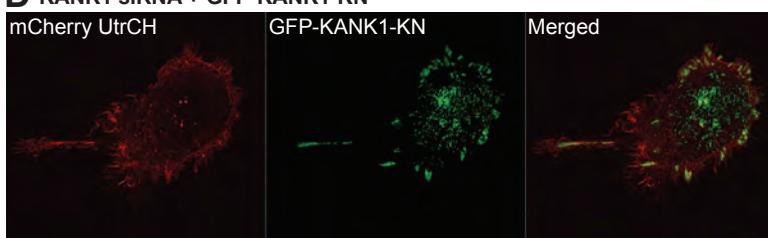
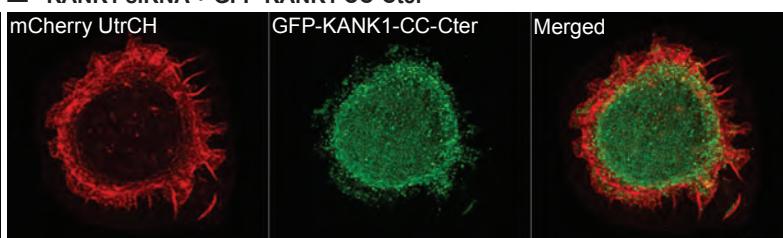
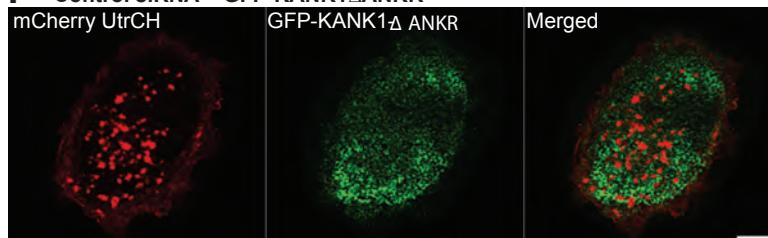
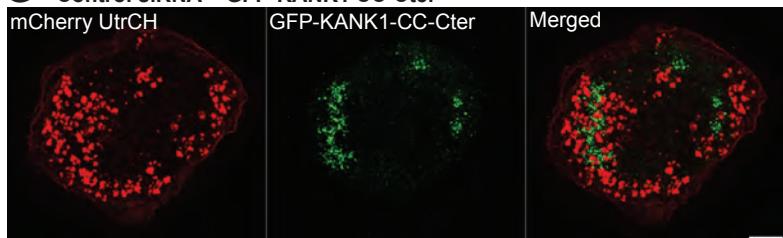
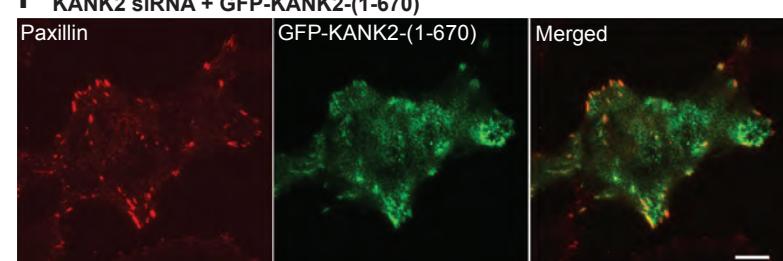
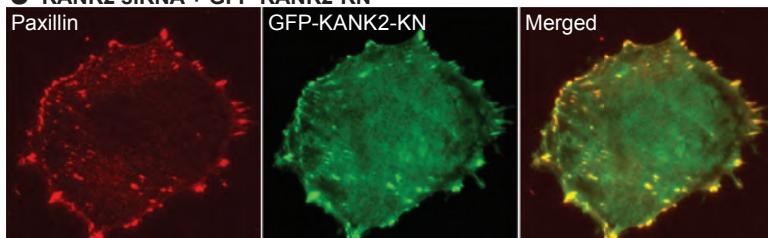
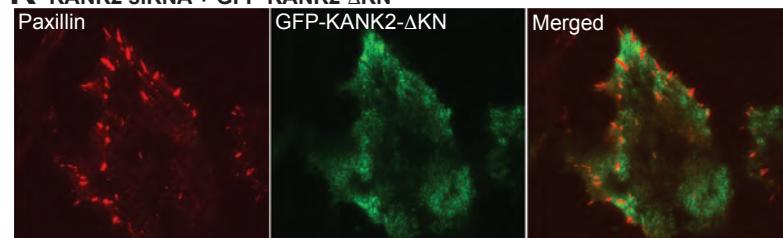
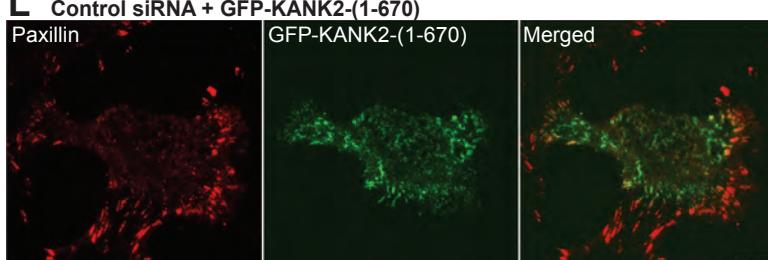
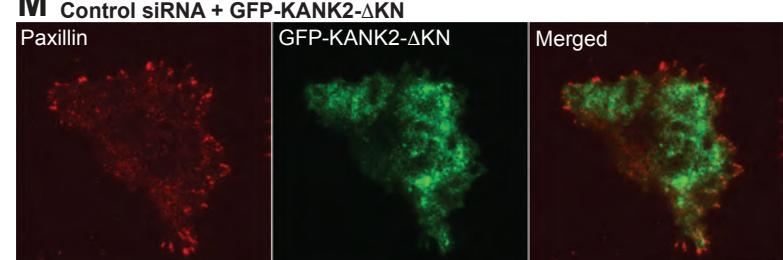
Talin-binding Liprin-binding Putative
KIF21A-binding**KANK2**

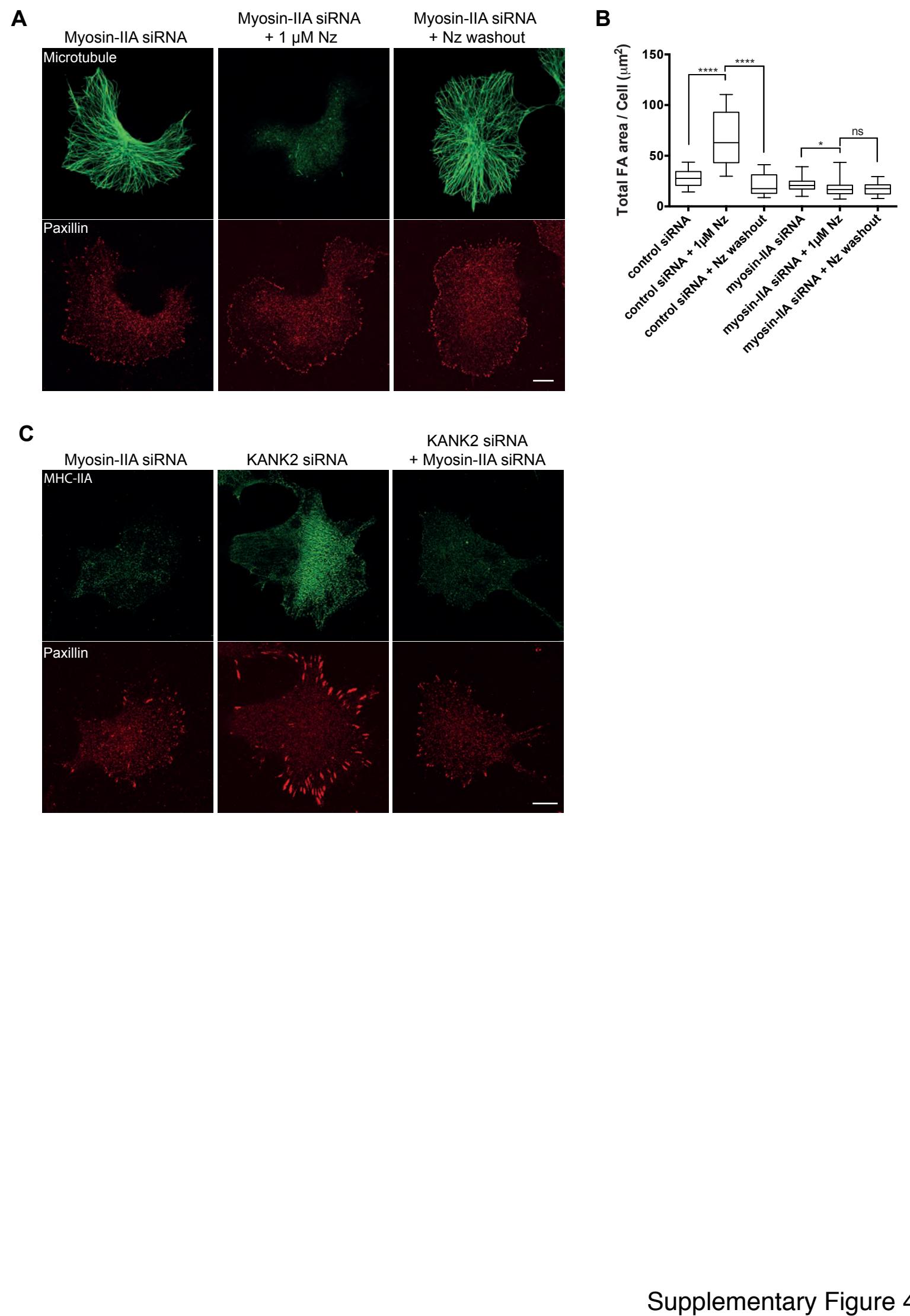
Full length KANK2 (1-843)

KANK2-ΔKN (Δ31-65)

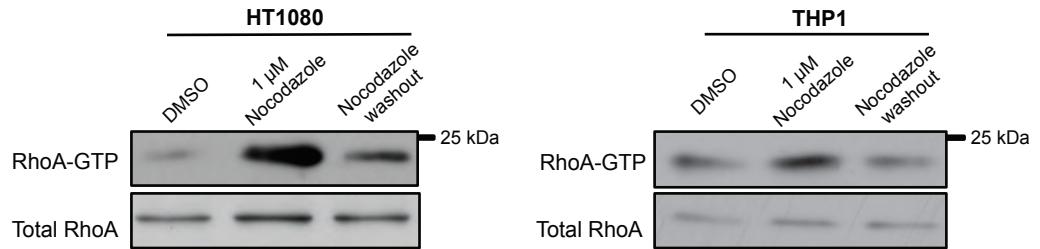
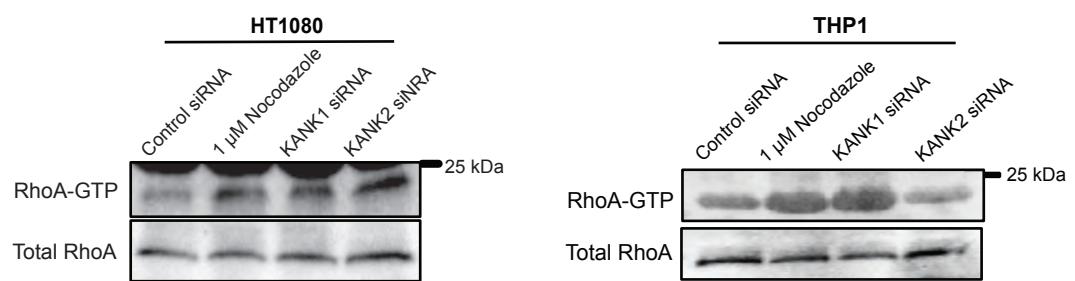
KANK2-KN (31-65)

KANK2 (1-670)

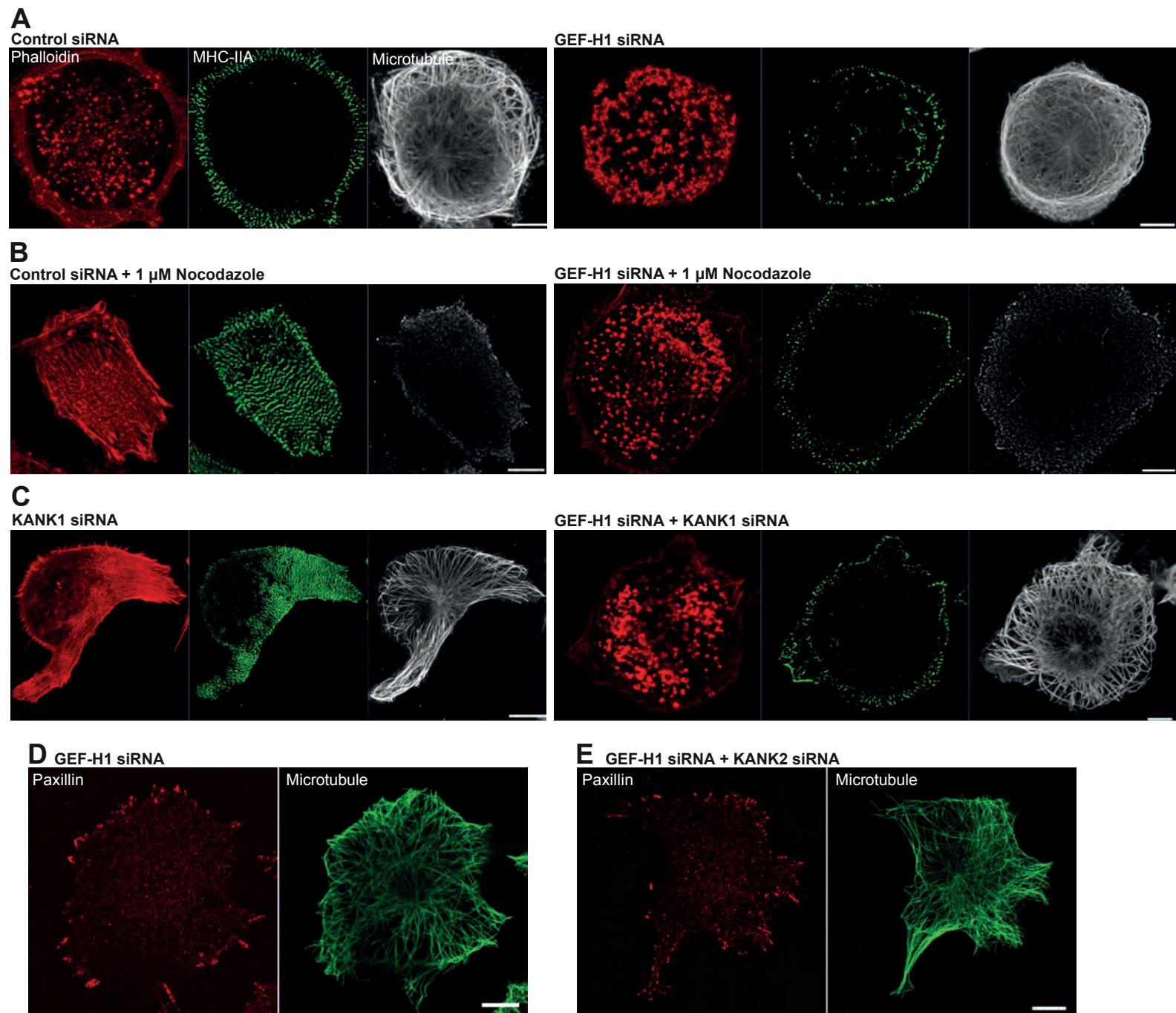
Supplementary
Figure 3**B KANK1 siRNA + GFP-KANK1****C KANK1 siRNA + GFP-KANK1ΔANKR****D KANK1 siRNA + GFP-KANK1-KN****E KANK1 siRNA + GFP-KANK1-CC-Cter****F Control siRNA + GFP-KANK1ΔANKR****G Control siRNA + GFP-KANK1-CC-Cter****H KANK2 siRNA + GFP-KANK2****I KANK2 siRNA + GFP-KANK2-(1-670)****J KANK2 siRNA + GFP-KANK2-KN****K KANK2 siRNA + GFP-KANK2-ΔKN****L Control siRNA + GFP-KANK2-(1-670)****M Control siRNA + GFP-KANK2-ΔKN**



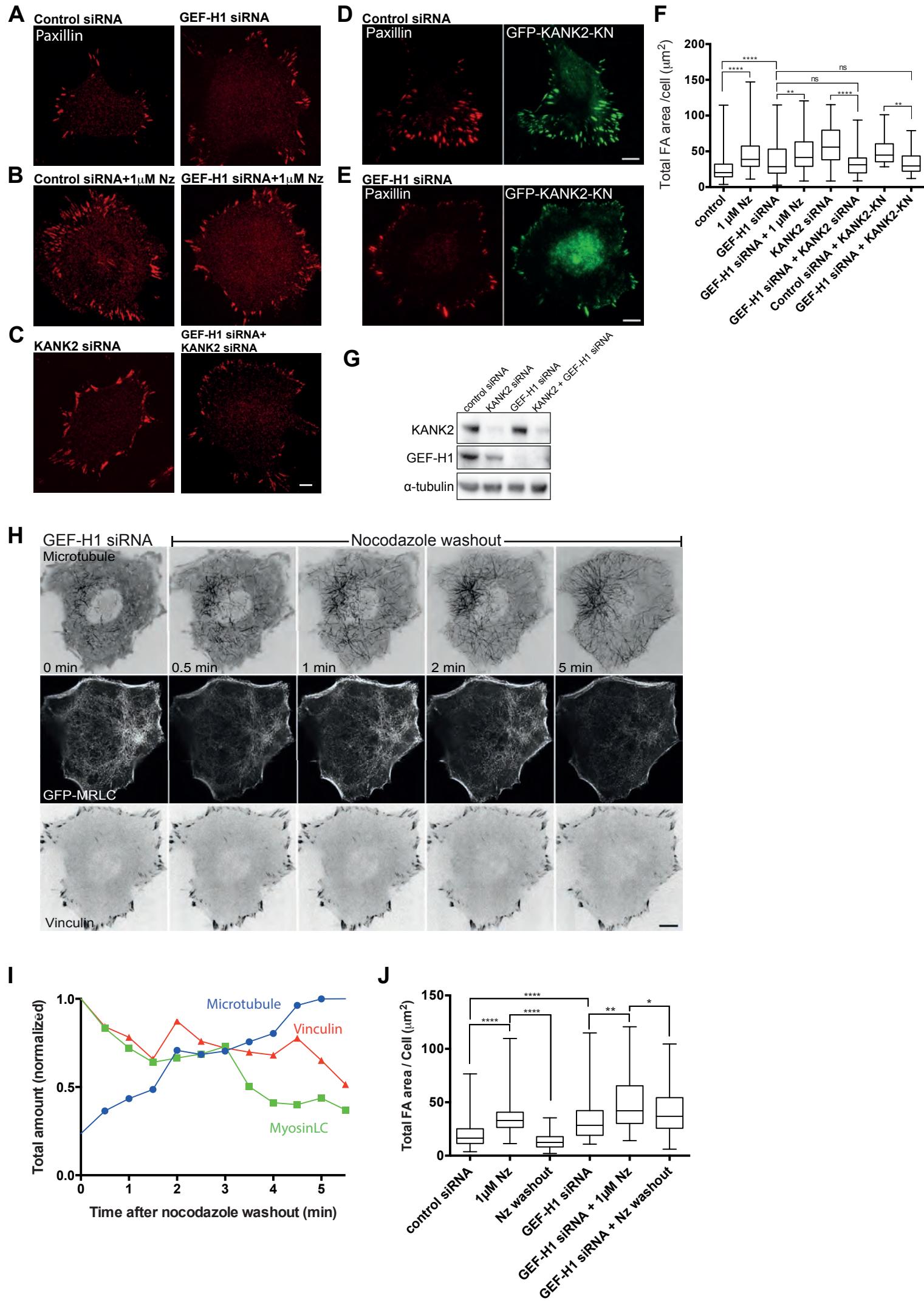
Supplementary Figure 4

A**B**

Supplementary Figure 5



Supplementary Figure 6



Supplementary Figure 7

Supplementary Table 1

Gene expression profile of HT1080 and THP1 cells presented as fragments per kilobase million (FPKM) values. See materials and method section for details of the quantification.

Gene ID	Protein	FPKM values	
		HT1080	THP1
23189	KANK1	5.46	6.74
25959	KANK2	18.6	71.97
256949	KANK3	0.46	0.23
163782	KANK4	1.37	-
23332	CLASP1	8.37	10.23
3688	Integrin β 1	547.88	69.23
3689	Integrin β 2	0.61	217.96
7094	Talin-1	98.26	80.24
7414	Vinculin	81.37	22.35
8496	Liprin- β 1	65.6	8.29
60	β -actin	3876.02	4328.99
999	Cadherin-1	0.15	0.67