

Fig. S1

Kishi, K et al.

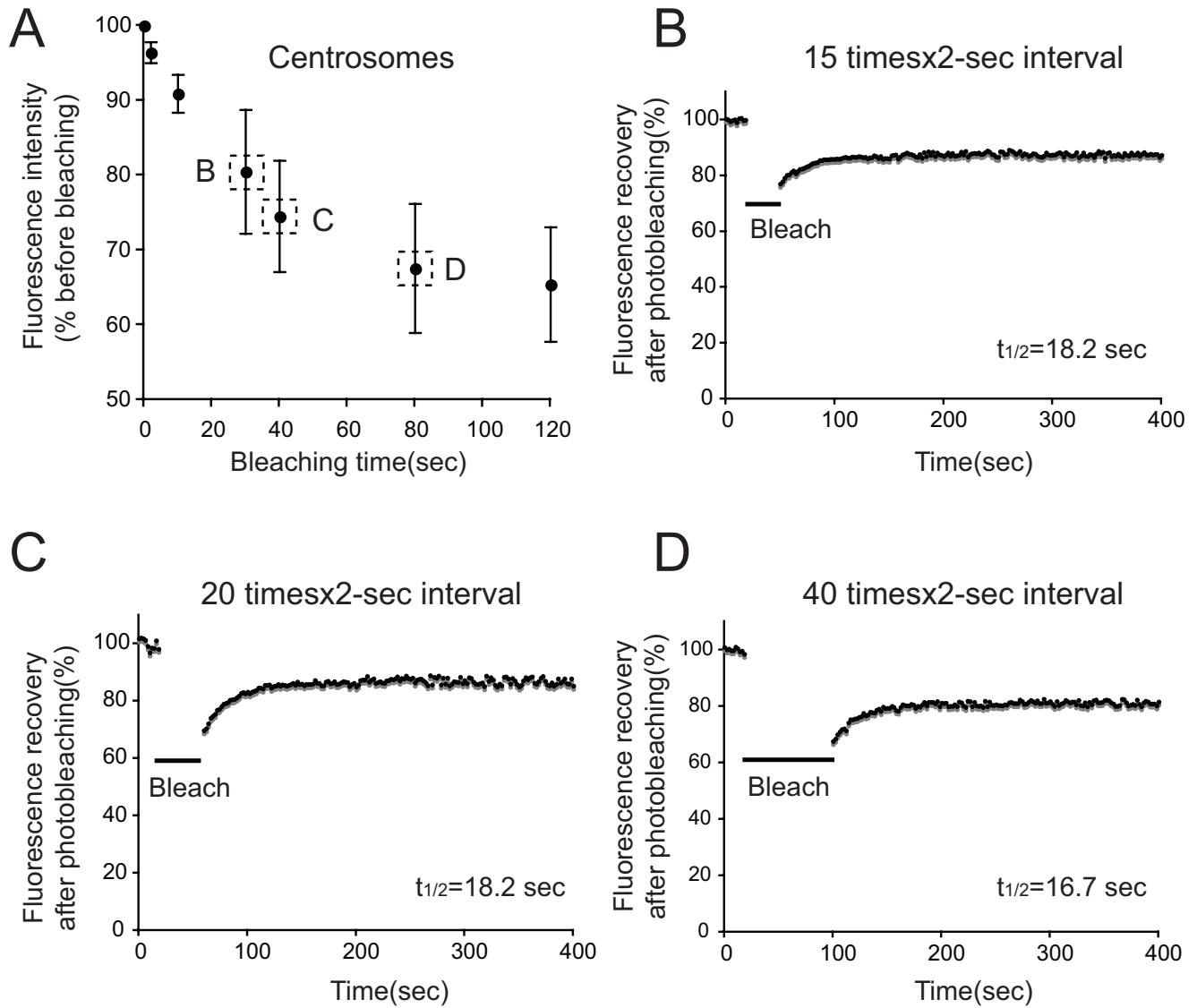


Fig. S2

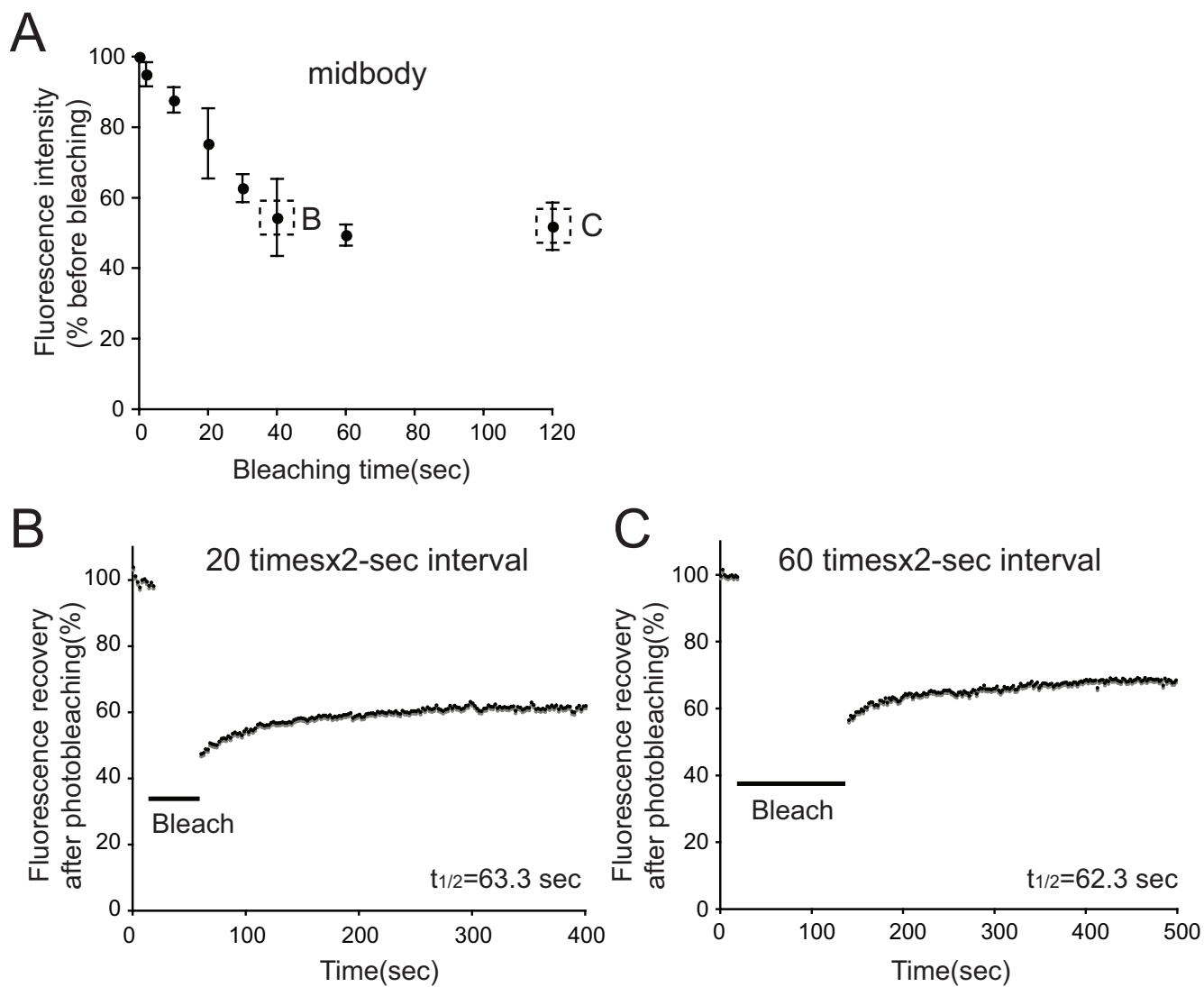


Fig. S3

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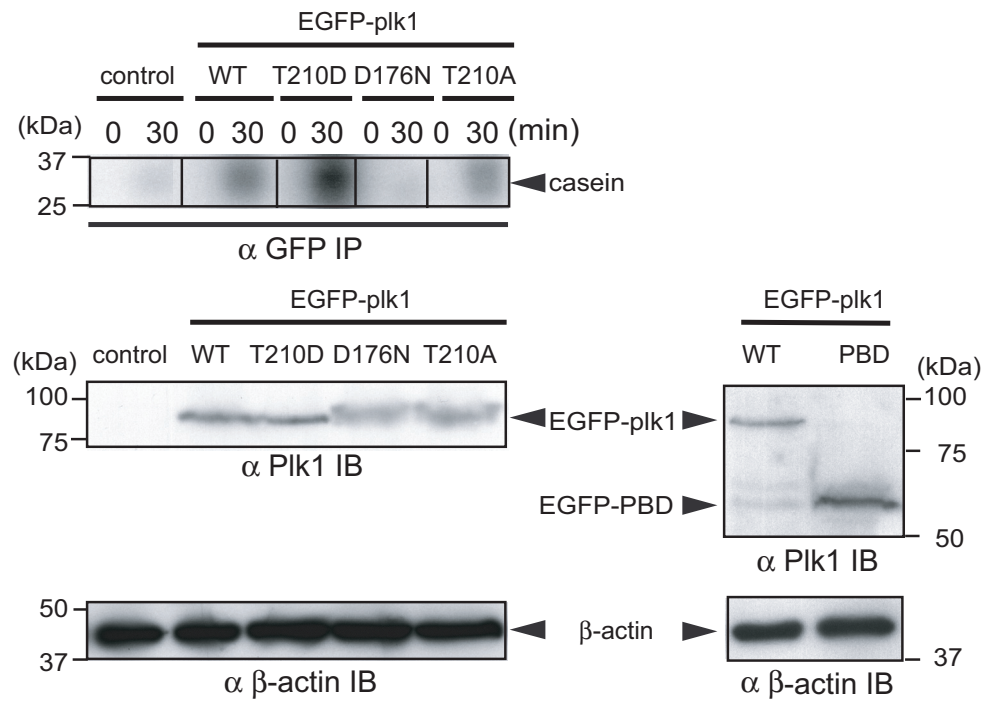


Fig. S4

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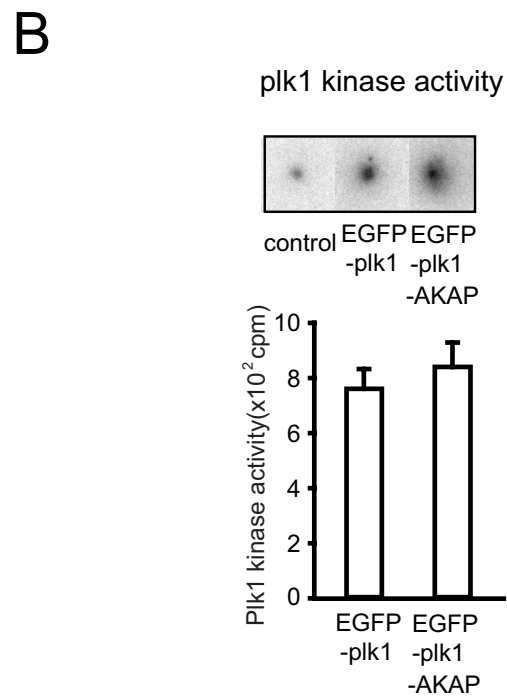
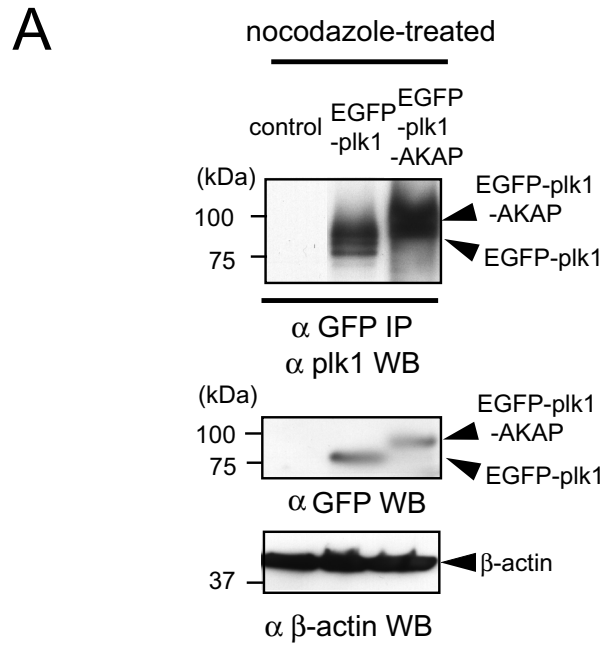


Fig. S5

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A

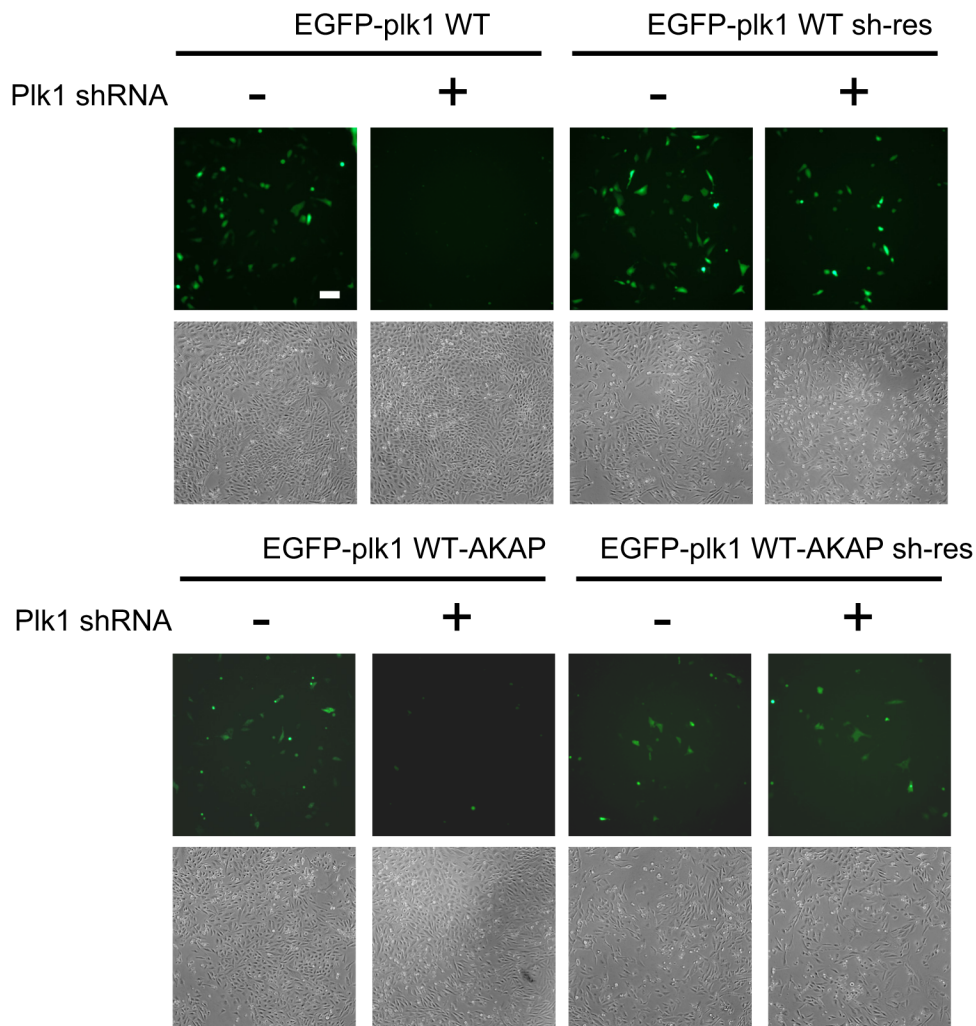
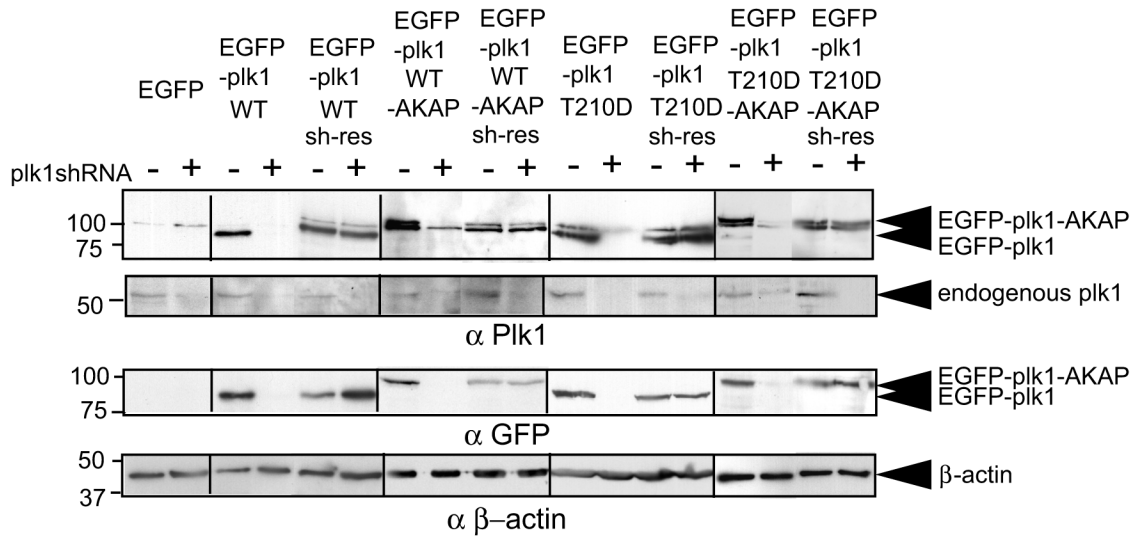
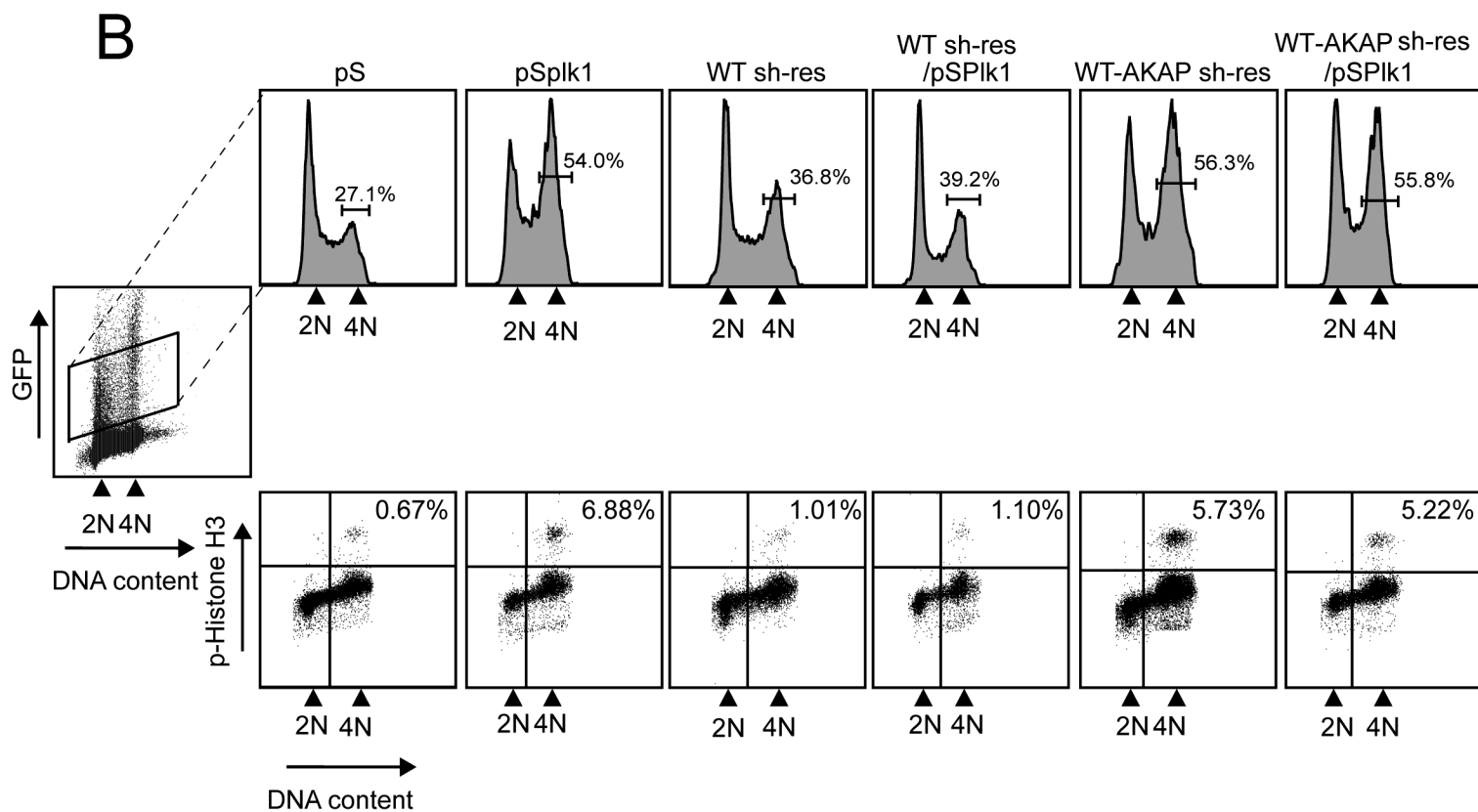


Fig. S5

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C

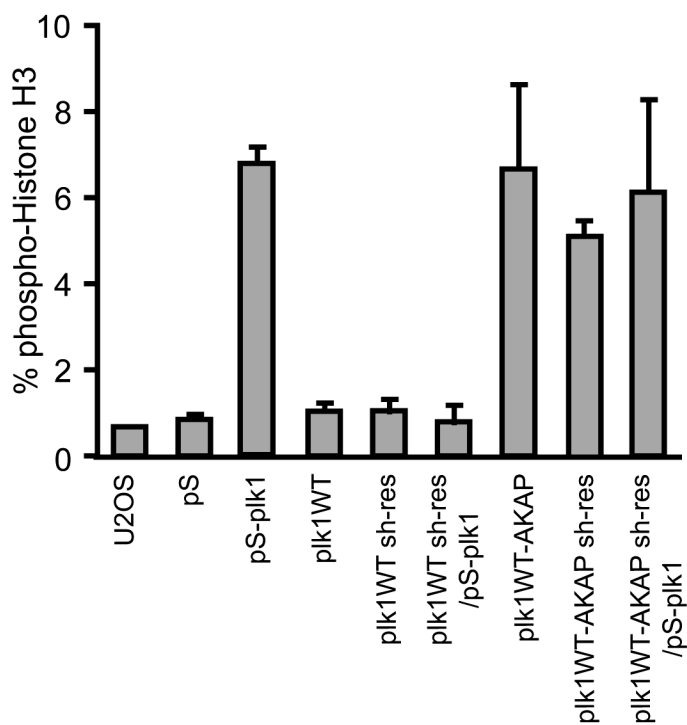


Fig. S6

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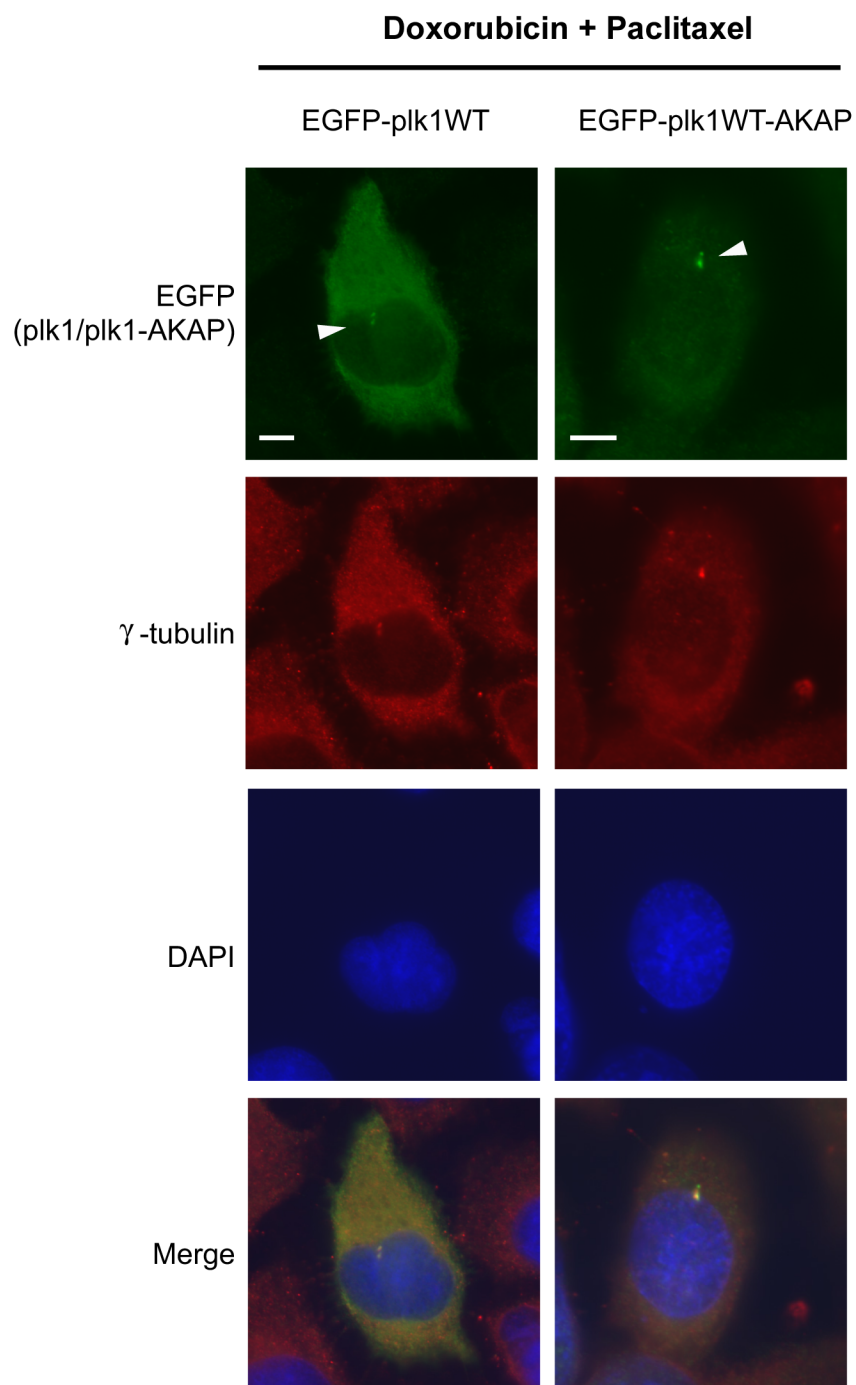


Fig. S7

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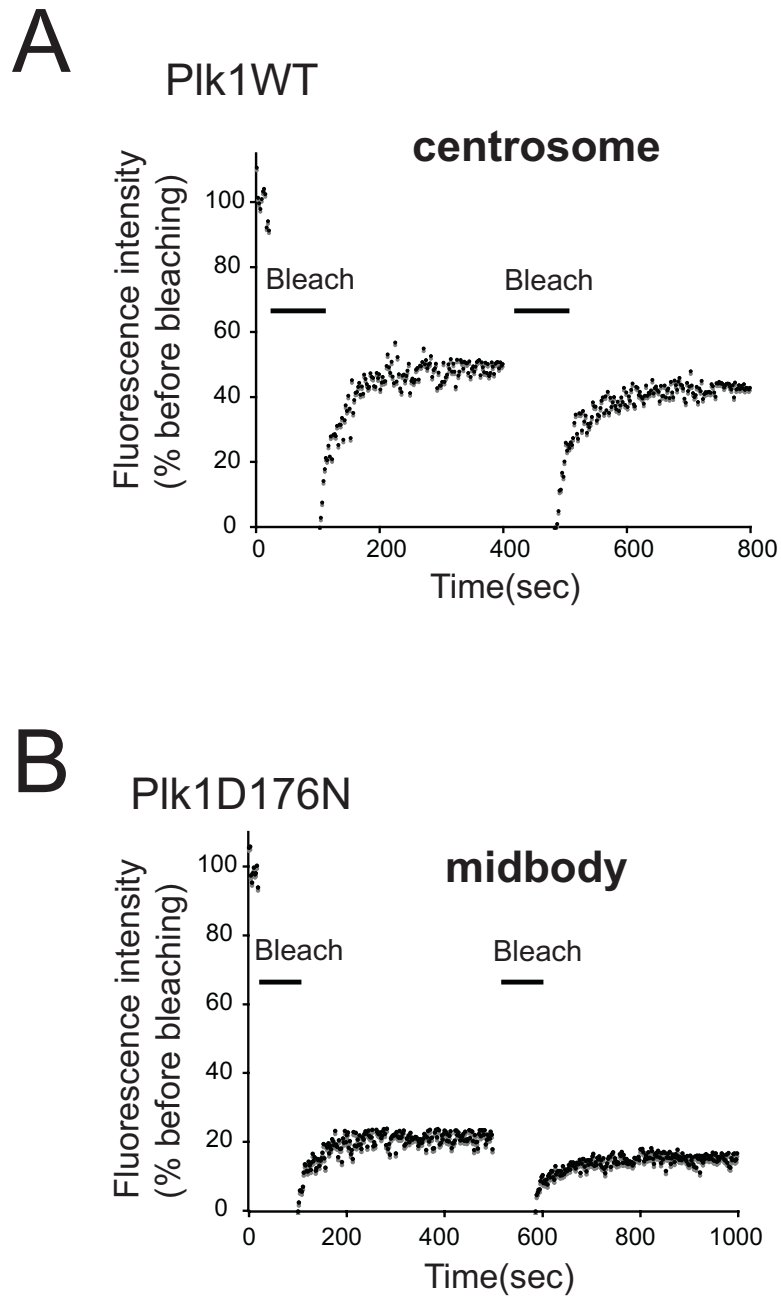
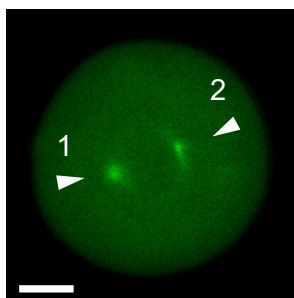


Fig. S8

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A



B

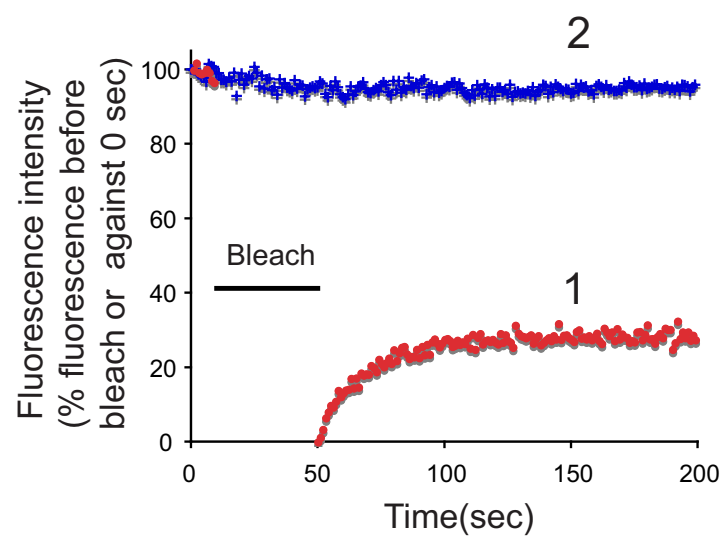
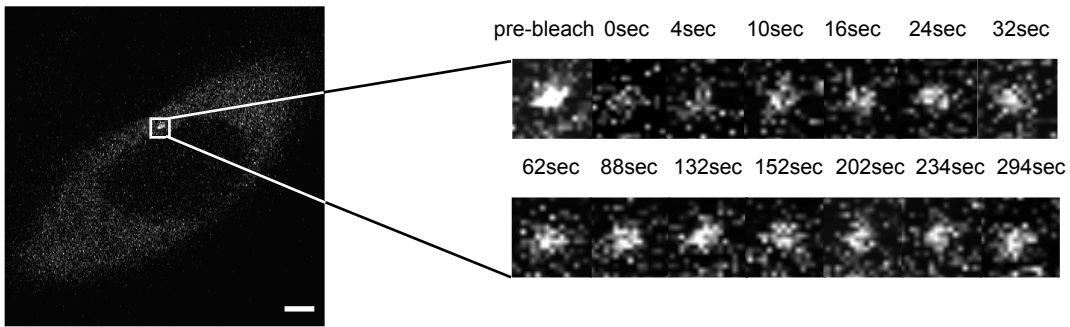
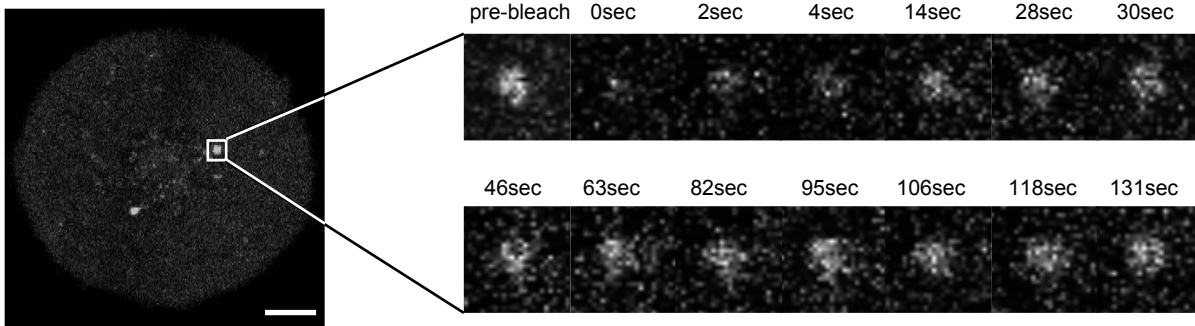


Fig. S9

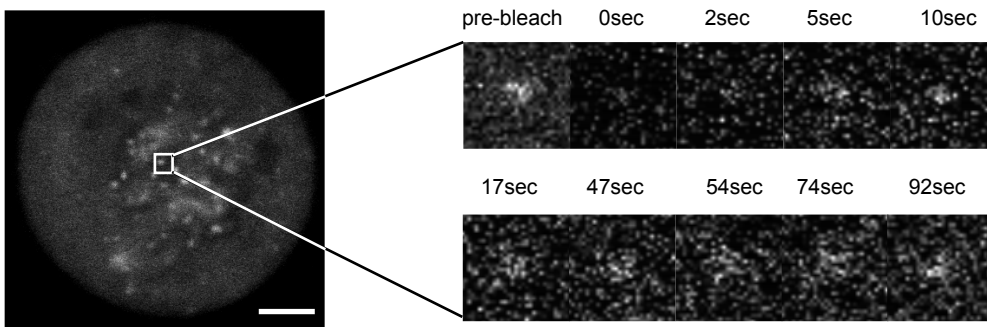
centrosomes



mitotic centrosomes



kinetochores



midbodies

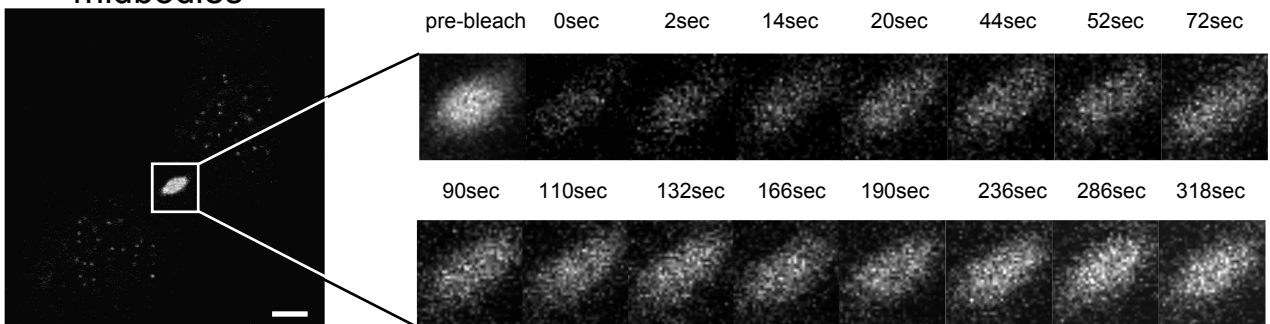


Table S1. Fluorescence intensities of EGFP-Pik1 wild type or mutants used for FRAP

Fluorescence intensity		Mean	Minimum	Maximum
G2 centrosomes	WT	9.3	6.3	13.3
	T210D	9.0	5.5	13.6
	D176N	9.2	6.0	12.0
	T210A	8.2	5.6	12.2
	PBD	7.8	4.5	10.1
	WT-AKAP	7.0	4.9	12.0
mitotic centrosomes	WT	7.7	4.1	13.2
	T210D	7.7	6.4	8.6
	D176N	8.3	5.9	9.4
	T210A	7.8	6.3	12.1
	PBD	7.9	5.6	13.6
kinetochores	WT	6.1	3.5	7.6
	D176N	6.4	5.4	8.4
	PBD	6.3	4.9	8.3
midbodies	WT	10.5	5.4	15.9
	T210D	11.3	8.2	15.7
	D176N	10.4	3.6	14.1
	T210A	11.2	7.9	12.4
	PBD	11.3	5.8	18.6

(arbitrary unit($\times 10^6$))

Fluorescence intensity was measured by pixel integration at each of the subcellular structures listed above. For each structure, the intensities of each construct were measured with the photomultiplier gain set to the same constant value.