

Supplementary Table 1. Antibodies used in immunofluorescence.

Antibody against	Company	Catalog number
α -tubulin	Sigma Aldrich	T9026
β -actin	Abcam	ab8227
β -catenin	Abcam	ab16051
cGAS	Sigma Aldrich	HPA031700
Cox IV	Abcam	ab16056
dsDNA (Extended Fig. 8d)	Abcam	AB27156
dsDNA (Fig. 5f)	Thermo Fisher Scientific	MAB1293MI
Human centromere proteins	Antibodies Incorporated	15-234-0001
IRF3	Abcam	ab68481
p65	Abcam	ab16502
Pericentrin	Abcam	ab4448
RelB	Abcam	ab180127
ssDNA	Thermo Fisher Scientific	MAB3299MI
Vimentin	Abcam	ab201637
STING	Abcam	ab181125

Supplementary Table 2. Antibodies used in immunoblots.

Antibody against	Company	Catalog number
β -actin	Abcam	ab8227
cGAS	Sigma Aldrich	HPA031700
GFP	Life Technologies	A11122
IRF3	Abcam	ab68481
p100/p52	Cell Signaling Technology	4882
p65	Abcam	ab16502
phospho-IRF3	Cell Signaling Technology	4947
phospho-p100	Abcam	194919
phospho-p65	Cell Signaling Technology	3033
phospho-TBK1	Cell Signaling Technology	5483
RelB	Cell Signaling Technology	4922
STING	Cell Signaling Technology	13647
TBK1	Cell Signaling Technology	3013
TRAF2	Cell Signaling Technology	4712
TRAF3	Cell Signaling Technology	4729
STAT1	Abcam	ab47425

Supplementary Table 3. Anti-sense shRNA sequences

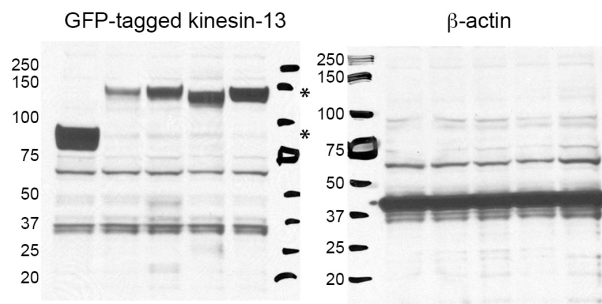
Gene Name	Entrez ID	shRNA ID	shRNA anti-sense sequence
<i>cGAS</i>	115004	2	TTCATATTCAATTTGCTTTGTC
		1	TTAGTTTTAAACAATCTTTCCT
		3	TTCTAAAAACTGACTCAGAGGA
<i>NFKB2</i>	4791	1	TTCAGTTGCAGAAACACTGTTA
		3	TCATCATATTCAATAATACCAT
		2	TGAAGTTTTTGTATCATAGTCC
<i>RelB</i>	5971	3	TTCCTCATCTGTAAAATGGGCT
		1	TAATGATTGGGGAACATGTTGC
		4	TTTCTTGTCATAGACGGGCTCG
		2	TCAAAAACTCATCTTTATTGGG
<i>STING</i>	340061	2	TTATGATCCCATTTCACAGGTT
		1	TCTCAAGAGAAATCCGTGCGGA

Supplementary Table 4. Quantitative PCR primers

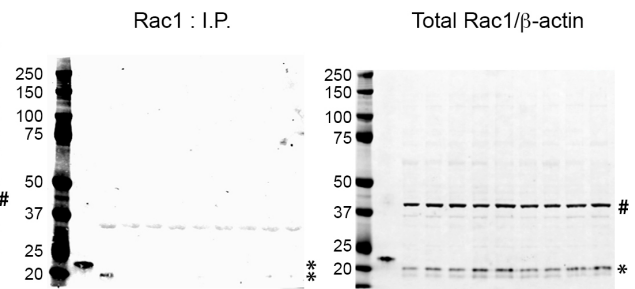
Gene Name	Forward Primer	Reverse Primer
ACTB	CAACCGCGAGAAGATGAC	ATCACGATGCCAGTGGTACG
IFNB	AGTAGGCGACACTGTTCGTG	GCCTCCCATTCAATTGCCAC
OAS2	GAGCCAGTTGCAGAAAACCAG	GCATTGTCGGCACTTTCCAA
OAS3	GAAGCCCAGGCCTATCATCC	TCATCCAGTAGGACCGCTGA
MX1	TGGCATAACCAGAGTGGCTG	CCACATTACTGGGGACCACC

Supplementary Figure 1a

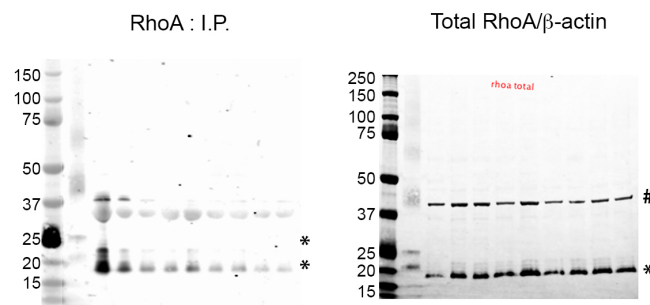
Immunoblots in Extended Data Figure 1f



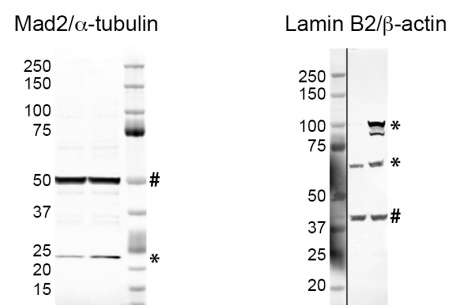
Immunoblots in Extended Data Figure 2a



Immunoblots in Extended Data Figure 2b

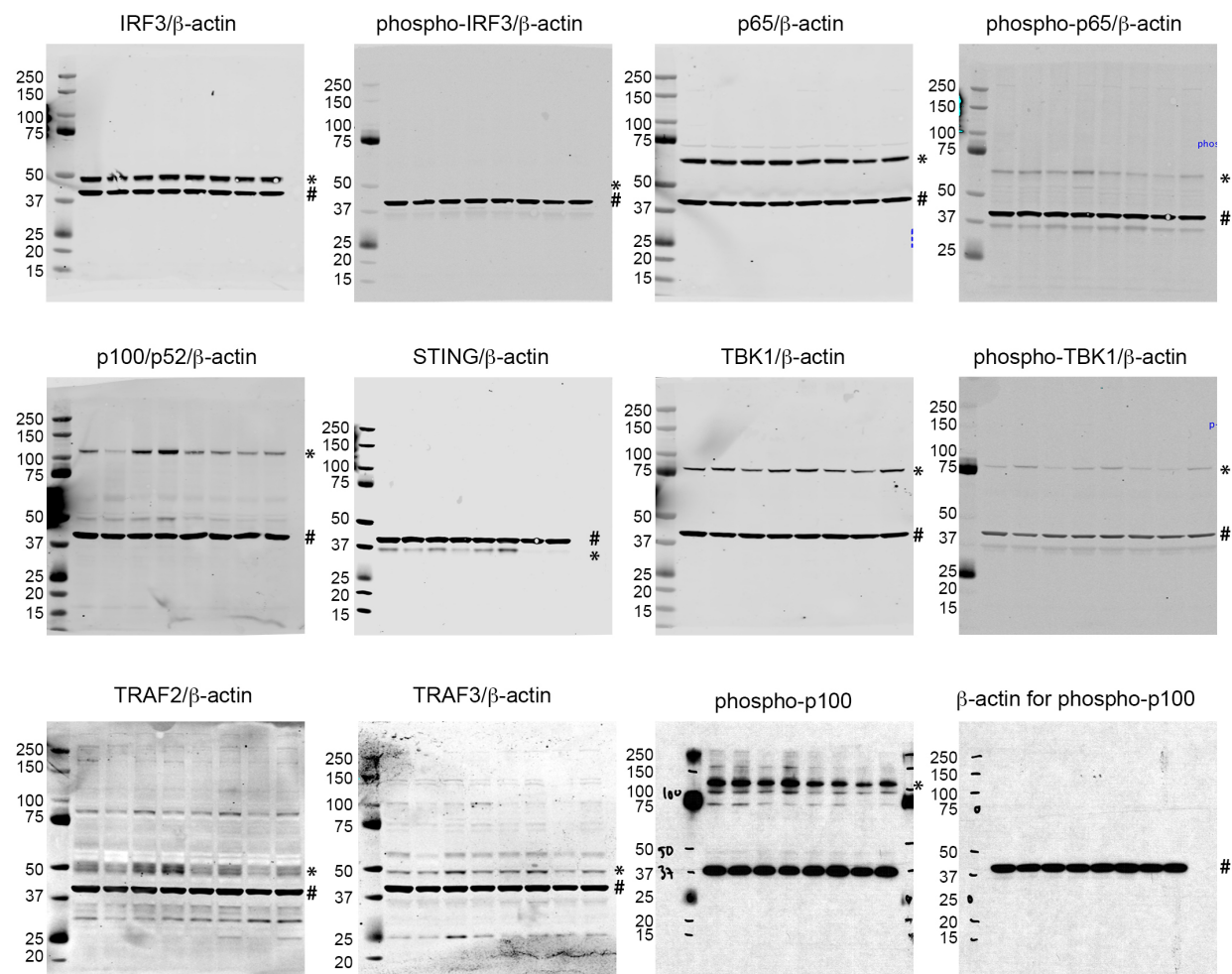


Immunoblots in Extended Data Figure 3



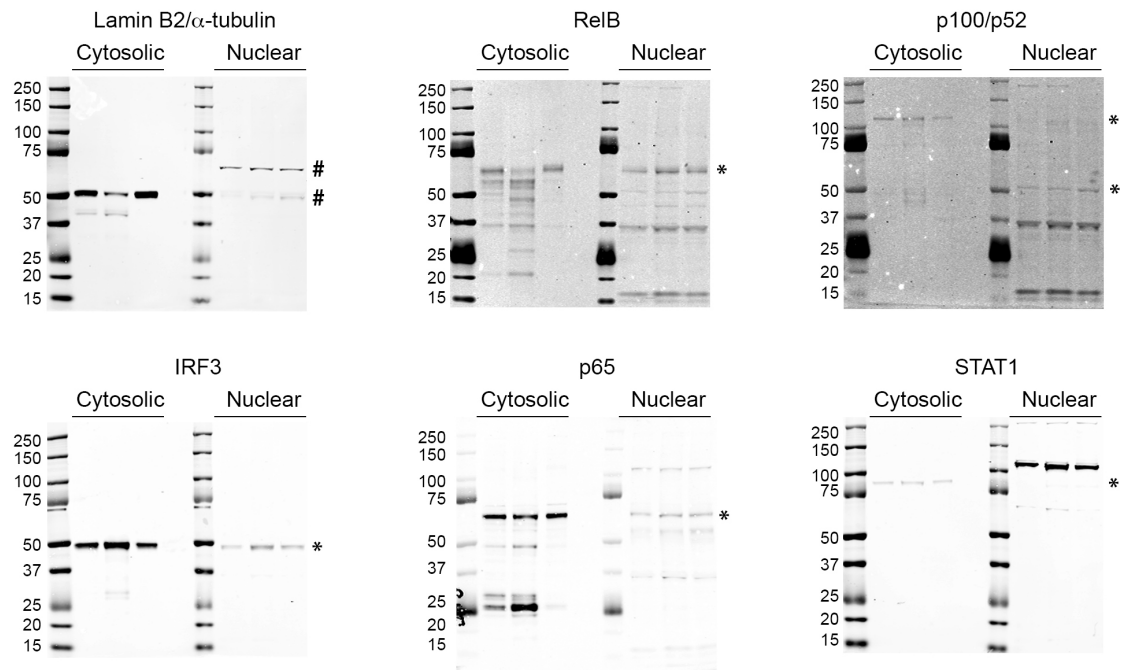
Supplementary Figure 1b

Immunoblots in Extended Data Figure 8i

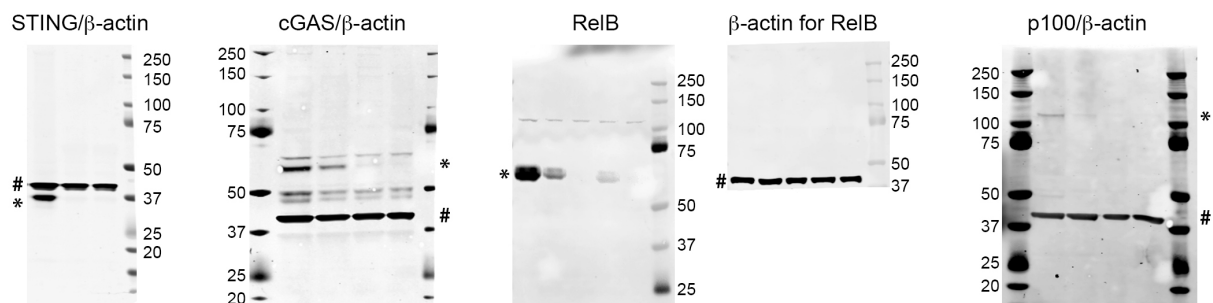


Supplementary Figure 1c

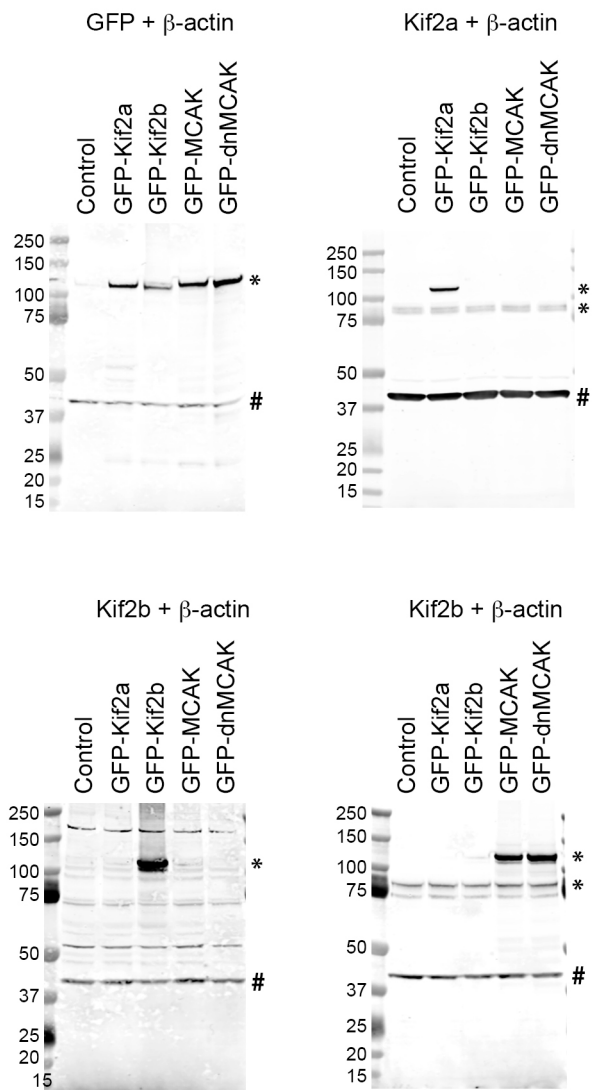
Immunoblots in Extended Data Figure 9e



Immunoblots in Extended Data Figure 9j

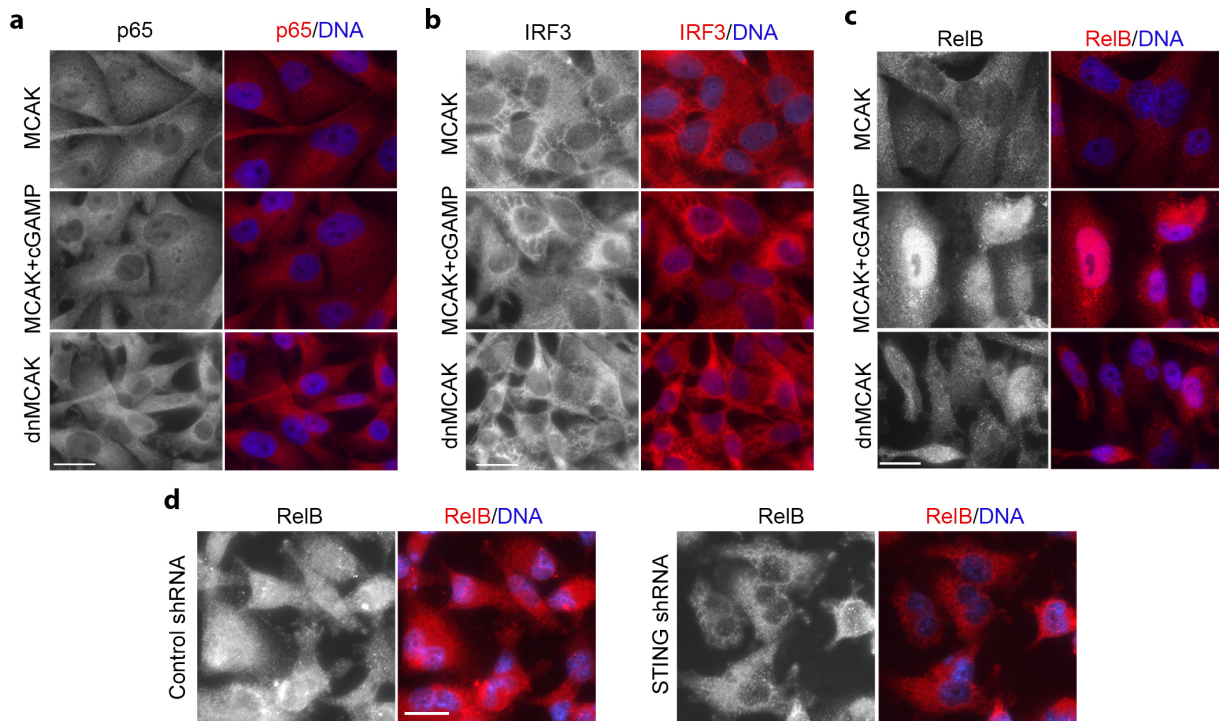


Supplementary Figure 1. Full immunoblots shown in the manuscript. * denotes protein bands and # denotes loading controls. Please note, a limited number of blots were stripped and re-blotted for different proteins.



Supplementary Figure 2. Immunoblots showing Kinesin-13 overexpression. Antibodies used are denoted above each blot. * denotes protein bands of interest and # denotes loading controls.

Immunofluorescence images shown in Extended Data Figure 9a-d



Supplementary Figure 3. Immunofluorescence images shown in Extended Data Figure 9a-d where individual panels are not contrast enhanced. In the original figure, panels were individually contrast enhanced to highlight transcription factor cytoplasmic and nuclear localization.