

Solid-phase		Solid-phase		Liquid-phase	
anti-rabbit	negative-control	non-targeting		non-targeting	
IgG	siRNA	gRNA		gRNA	
HeLa	HeLa	HeLa	HEK293T	HeLa	HEK293T
<i>PLK1/KIF11</i>	0.25% ± 0.22%	0.54% ± 0.27%	0.36% ± 0.16%	0.18% ± 0.04%	0.12% ± 0.05%
				0.23% ± 0.03%	0.20% ± 0.04%
<i>INCENP</i>			0.48% ± 0.02%	0.20% ± 0.04%	0.39% ± 0.06%

**Supplemental Table S3** Phenotype incidences of the three target genes after solid-phase reverse and liquid-phase transfection of a negative control antibody, negative control siRNA and negative control gRNA, respectively. Cells were fixed 24 hours post transfection (anti-rabbit IgG and negative control siRNA) or 48 hours post transfection (non-targeting gRNA). Phenotype analysis and quantification was performed as described in Methods.