**Supplementary File 1**

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|   | Scrambled-shRNA (%) | sh-DIAPH3 (%) |
| Abnormal cell division | 4.2 | 81.7 |
|  (1) defect in chromosome alignment: lagging chromosomes and/or asymmetric metaphase plate  | 4.2 | 57.4 |
|  (2) abnormal astral microtubule | 0.0 | 52.2 |
|  (3) abnormal number of centrosomes | 0.0 | 40.0 |
|  (4) abnormal mitotic spindle | 0.0 | 53.0 |
|  (5) mis-localization of SPAG5  | 0.0 | 60.0 |