**Supplementary File 1**

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| **Figure** | **Condition 1** | **Condition 2** | ***p*-value** | **star** |
| 6A concentration | WT | Δ45 | 3.5E-13 | \*\*\* |
| 6A diffusion | WT | Δ45 | 9.1E-10 | \*\*\* |
| 6C concentration in cytoplasm | WT/DMSO | WT/CHIR99021 | 2.6E-19 | \*\*\* |
| Δ45/DMSO | Δ45/CHIR99021 | 0.0064 | \*\* |
| 6C diffusion in cytoplasm | WT/DMSO | WT/CHIR99021 | 3.1E-17 | \*\*\* |
| Δ45/DMSO | Δ45/CHIR99021 | 0.15 | NS |
| 6C concentration in nucleus | WT/DMSO | WT/CHIR99021 | 3.3E-22 | \*\*\* |
| Δ45/DMSO | Δ45/CHIR99021 | 5.0E-06 | \*\*\* |
| 6C diffusion in nucleus | WT/DMSO | WT/CHIR99021 | 2.7E-13 | \*\*\* |
| Δ45/DMSO | Δ45/CHIR99021 | 0.016 | \* |
| 6D concentration in cytosol | WT/DMSO | WT/DMSO +Wnt3a | 0.026 | \* |
|  | WT/LGK974 | 1.4E-17 | \*\*\* |
| Δ45/DMSO | Δ45/DMSO +Wnt3a | 0.34 | NS |
|  | Δ45/LGK974 Control | 4.4E-04 | \*\*\* |
| WT/LGK974 | WT/LGK974 +Wnt3a | 3.2E-13 | \*\*\* |
| Δ45/LGK974 | Δ45/LGK974 +Wnt3a | 0.031 | \* |
| 6D diffusion in cytosol | WT/DMSO | WT/DMSO +Wnt3a | 8.5E-05 | \*\*\* |
|  | WT/LGK974 | 2.7E-11 | \*\*\* |
| Δ45/DMSO | Δ45/DMSO +Wnt3a | 0.801 | NS |
|  | Δ45/LGK974 Control | 6.0E-04 | \*\*\* |
| WT/LGK974 | WT/LGK974 +Wnt3a | 1.4E-11 | \*\*\* |
| Δ45/LGK974 | Δ45/LGK974 +Wnt3a | 0.030 | \* |
| Figure 6-figure supplement 1B concentration in nucleus | WT/DMSO | WT/DMSO +Wnt3a | 0.0060 | \*\* |
|  | WT/LGK974 | 3.1E-18 | \*\*\* |
| Δ45/DMSO | Δ45/DMSO +Wnt3a | 0.17 | NS |
|  | Δ45/LGK974 Control | 9.2E-08 | \*\*\* |
| WT/LGK974 | WT/LGK974 +Wnt3a | 9.2E-13 | \*\*\* |
| Δ45/LGK974 | Δ45/LGK974 +Wnt3a | 0.0011 | \*\* |
| Figure 6-figure supplement 1B diffusion in nucleus | WT/DMSO | WT/DMSO +Wnt3a | 1.7E-04 | \*\*\* |
|  | WT/LGK974 | 1.2E-12 | \*\*\* |
| Δ45/DMSO | Δ45/DMSO +Wnt3a | 0.0018 | \*\* |
|  | Δ45/LGK974 Control | 0.13 | NS |
| WT/LGK974 | WT/LGK974 +Wnt3a | 4.1E-13 | \*\*\* |
| Δ45/LGK974 | Δ45/LGK974 +Wnt3a | 5.0E-06 | \*\*\* |
| 7B concentration in cytoplasm | WT/DMSO | WT APCLOF /DMSO | 3.6E-18 | \*\*\* |
| Δ45/DMSO | Δ45 APCLOF/DMSO | 0.048 | \* |
| WT APCLOF /DMSO | WT APCLOF /CHIR99021 | 4.5E-04 | \*\*\* |
| 7B diffusion in cytoplasm | WT/DMSO | WT APCLOF /DMSO | 2.5E-16 | \*\*\* |
| WT/DMSO | WT APCLOF/DMSO | 0.0016 | \*\* |
| WT APCLOF /DMSO | WT APCLOF /CHIR99021 | 0.0047 | \*\* |
| Figure 7-figure supplement 1A concentration in nucleus | WT/DMSO | WT APCLOF /DMSO | 1.9E-23 | \*\*\* |
| Δ45/DMSO | Δ45 APCLOF/DMSO | 0.99 | NS |
| WT APCLOF /DMSO | WT APCLOF /CHIR99021 | 0.0019 | \*\* |
| Figure 7-figure supplement 1A diffusion in nucleus | WT/DMSO | WT APCLOF /DMSO | 1.8E-15 | \*\*\* |
| Δ45/DMSO | Δ45 APCLOF/DMSO | 0.38 | NS |
| WT APCLOF /DMSO | WT APCLOF /CHIR99021 | 0.081 | NS |