ANNEXURE 2

Densitometric analysis of western blot results

(A) Densitometric analysis of Akt and P-Akt expression in K562 NICD compared to K562. Results were normalised against beta actin levels. (p<0.006, n=4). (Corresponding Western blot image in the main text - Figure 1C)

(B) Densitometric analysis of Akt and P-Akt expression in HEL NICD compared to HEL. Results were normalised against beta actin levels. (p<0.01, n=3). (Corresponding Western blot image in the main text - Figure 1C)
(C) Densitometric analysis of Akt and P-Akt expression in K562 treated with 0.5 and 1.0μM GSI compared to K562. Results were normalised against beta actin levels. (p<0.05, n=3). (Corresponding Western blot image in the main text - Figure 1D)

(D) Densitometric analysis of Akt and P-Akt expression in HEL treated with GSI compared to HEL. Results were normalised against beta actin levels. (p<0.03, n=3). (Corresponding Western blot image in the main text - Figure 1D)

(E) Densitometric analysis of EZH2 and H3K27me3 expression in K562 NICD compared to K562. Results were normalised against beta actin levels. (p<0.04, n=4). (Corresponding Western blot image in the main text - Figure 8A)
(F) Densitometric analysis of EZH2 expression in the nuclear and cytoplasmic fractions of K562 NICD compared to K562. Results were normalised against GAPDH for cytoplasmic fraction and against H2b for nuclear fraction \((p<0.002, n=5)\). (Corresponding Western blot image in the main text - Figure 8B)

(G) Densitometric analysis of EZH2 expression in K562 myr-Akt compared to K562. Results were normalised against beta actin levels \((p<0.02, n=3)\). (Corresponding Western blot image in the main text - Figure 8C)
(H) Densitometric analysis of EZH2 expression in cytoplasmic fraction (left panel) and nuclear fraction (right panel). Results were normalised against GAPDH/H2b levels (p<0.002, n=3). In both the panels the expression of EZH2 in K562 was taken as 1 and the corresponding fold changes were calculated. (Corresponding Western blot image in the main text - Figure 8E)

(I) Densitometric analysis of EZH2 expression in cytoplasmic fraction (left panel) of K562 TPA and K562 NICD compared to K562. Results were normalised against GAPDH levels (p<0.03, n=4). Densitometric analysis of Akt and P-Akt expression in K562 TPA compared to K562 (right panel). Results were normalised against beta actin levels. (p<0.01, n=3) (Corresponding Western blot image in the main text - Figure 8G)

(J) Left panel shows densitometric analysis of EZH2 expression in HEL TPA compared to HEL. Results were normalised against beta actin levels (p<0.01, n=3). Right panel shows densitometric analysis of EZH2 expression in HEL NICD compared to HEL. Results were normalised against beta actin levels. (p<0.02, n=3) (Corresponding Western blot image in the main text - Figure 8H)
(L) Densitometric analysis of RhoA, Rac and cdc42 expression in K562 NICD compared to K562. Results were normalised against beta actin levels (*p<0.001, **p<0.002, n=3). (Corresponding Western blot image in the main text - Figure 10B)

(K) Densitometric analysis of vav1 expression in K562 NICD compared to K562. Results were normalised against beta actin levels (p<0.001, n=3). (Corresponding Western blot image in the main text - Figure 9A)
(M) Densitometric analysis of P-Cofilin/Cofilin ratio in K562 NICD compared to K562. Results were normalised against beta actin levels (p<0.001, n=5). (Corresponding Western blot image in the main text - Figure 10C)

(N) Densitometric analysis of P-Cofilin/Cofilin ratio in K562 NICD and K562 EZH2ΔNLS compared to K562. Results were normalised against beta actin levels (*p<0.001, **p<0.002, n=3). (Corresponding Western blot image in the main text - Figure 10E)

(O) Densitometric analysis of P-Cofilin/Cofilin ratio in K562 NICD and K562 NICD transfected with EZH2 siRNA when compared to K562. Results were normalised against beta actin levels (p<0.02, n=3). (Corresponding Western blot image in the main text - Figure 10F)
(R) Densitometric analysis of the western blots showing the change in expression of phosphor-p38MAPK and p38MAPK with change in RhoA activity in the presence of imatinib. Normalised densitometric expression values were plotted against the expression seen in Mock transfected untreated K562 cells. (n=3, *p<0.001, **p<0.01, ***p<0.005, ****p<0.07, n=3) (Corresponding Western blot image in the main text - Figure 15B)

(Q) Densitometric analysis of P-Cofilin/Cofilin ratio in myr-Akt transfected K562 and HEL cells. The P-Cofilin/Cofilin ration of K562 and HEL was taken as 1 and the corresponding ratios of the transfected cells were calculated. Results were normalised against beta actin levels (p<0.02, n=3). (Corresponding Western blot image in the main text - Figure 10I)

(P) Densitometric analysis of P-Cofilin/Cofilin ratio and P-Akt/Akt ratio in K562 cells and cells transfected with NICD treated with/without LY294002. The P-Cofilin/Cofilin ratio of K562 was taken as 1 and the corresponding ratios of the treated cells were calculated. Results were normalised against beta actin levels (*p<0.001, **p<0.01, ***p<0.005, ****p<0.07, n=3) (Corresponding Western blot image in the main text - Figure 10G)
Densitometric analysis of the western blots showing the change in expression of phosphor-SAPK/JNK and SAPK/JNK with change in RhoA activity in the presence of imatinib. Normalised densitometric expression values were plotted against the expression seen in Mock transfected untreated K562 cells. (n=3, *p<0.0001, **p<0.0005, ***p<0.001, ****p<0.005, *****p<0.008) (Corresponding Western blot image in the main text - Figure 15B)