

Supplementary Data 8. Output of extreme limiting dilution analysis

SW480(NC-shHIF1A)

Counter	Dose	Tested	Response	Group
1	1000000	5	5	NC
2	500000	5	5	NC
3	100000	5	4	NC
4	50000	5	0	NC
5	1000000	5	5	shHIF1A
6	500000	5	4	shHIF1A
7	100000	5	0	shHIF1A
8	50000	5	0	shHIF1A

Confidence intervals for 1/(stem cell frequency)			
Group	Lower	Estimate	Upper
NC	271600	120375	53351
shHIF1A	813593	399966	196625

Overall test for differences in stem cell frequencies between any of the groups		
Chisq	DF	P.value
4.29	1	0.0383

SW480(NC-shUSP51)

Counter	Dose	Tested	Response	Group
1	1000000	5	5	shControl
2	500000	5	5	shControl
3	100000	5	3	shControl
4	50000	5	0	shControl
5	1000000	5	5	shUSP51
6	500000	5	3	shUSP51
7	100000	5	0	shUSP51
8	50000	5	0	shUSP51

Confidence intervals for 1/(stem cell frequency)			
Group	Lower	Estimate	Upper
shControl	344488	156396	71003
shUSP51	1059330	514708	250087

Overall test for differences in stem cell frequencies between any of the groups		
Chisq	DF	P.value
4.4	1	0.0359

HCT116(NC-USP51)

Counter	Dose	Tested	Response	Group
1	500000	5	5	Lenti-Control
2	100000	5	1	Lenti-Control
3	50000	5	0	Lenti-Control
4	10000	5	0	Lenti-Control
5	500000	5	5	Lenti-USP51
6	100000	5	5	Lenti-USP51
7	50000	5	1	Lenti-USP51
8	10000	5	0	Lenti-USP51

Confidence intervals for 1/(stem cell frequency)			
Group	Lower	Estimate	Upper
Lenti-USP51	168712	77686	35771
Lenti-Control	617617	272406	120147

Overall test for differences in stem cell frequencies between any of the groups		
Chisq	DF	P.value
4.15	1	0.0417