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Supplemental Information

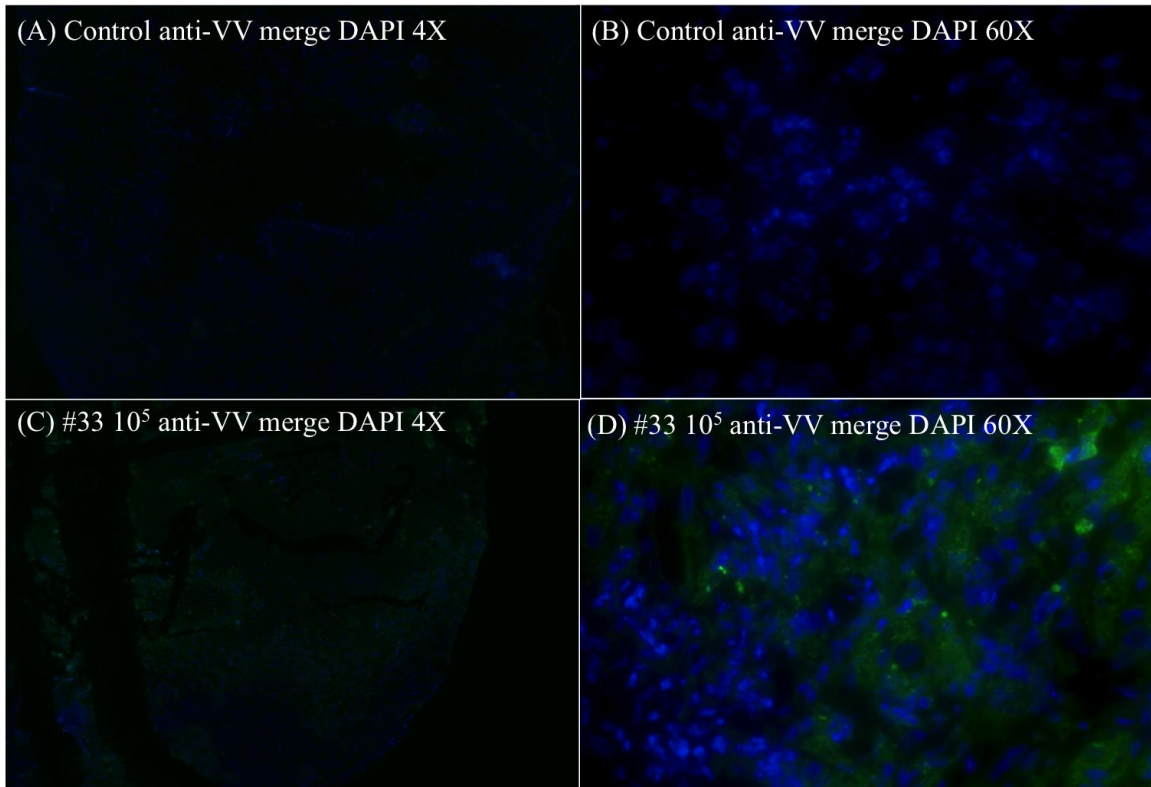
**Endogenous Akt Activity Promotes Virus Entry
and Predicts Efficacy of Novel Chimeric
Orthopoxvirus in Triple-Negative Breast Cancer**

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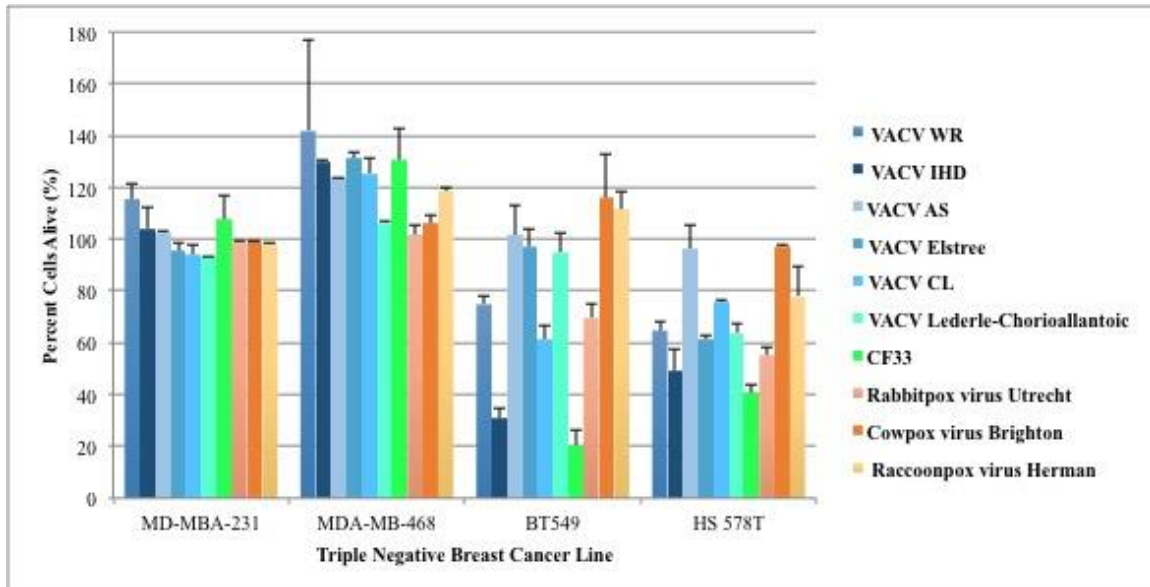
Supplementary Data

Supplemental Figure 1. CF33 infects MDA-MB-468 tumors *in vivo*.

Immunofluorescent detection of polyclonal antibody against vaccinia virus demonstrates viral infection of MDA-MB-468 xenograft tumor tissue harvested one week after intratumoral CF33 injection. (A) Control tumor, 4X, (B) Control tumor, 60X, (C) Tumor treated with 10^5 PFU, 4X, (C) Tumor treated with 10^5 PFU, 60X. (VV: green; DAPI counterstain: blue).



Supplemental Figure 2. High-throughput screening of CF33 against parental viruses. All cells were infected at 0.01 MOI and assayed for cell viability at 96 hours post-infection. While none of the viruses were effective against MD-MBA-231 or MD-MBA-468 at this particular screening MOI, CF33 was more effective than any of the parental viruses against BT549 and Hs578T and was thus selected for further study. Data are presented as means \pm standard deviation of the means.



Virus	MD-MBA-231		MDA-MB-468		BT549		HS 578T	
	% Cells Alive	SD	% Cells Alive	SD	% Cells Alive	SD	% Cells Alive	SD
VACV WR	115.46	5.89	141.72	35.53	74.84	3.14	64.75	3.56
VACV IHD	104.11	8.32	129.44	1.04	30.91	3.69	49.18	8.27
VACV AS	102.31	0.92	123.57	0.52	101.56	11.86	95.97	9.80
VACV Elstree	95.36	2.89	131.09	2.33	97.22	6.36	61.42	1.65
VACV CL	94.14	3.70	125.40	5.71	61.40	5.50	75.73	0.76
VACV Lederle-Chorioallantoic	93.32	0.00	106.51	0.26	95.00	7.62	63.94	3.69
CF33	107.46	9.36	130.35	12.19	20.52	5.81	40.72	3.44
Rabbitpox virus Utrecht	99.04	0.69	101.74	3.37	69.56	5.11	55.21	3.05
Cowpox virus Brighton	99.04	0.46	105.96	3.11	116.11	17.04	97.32	0.25
Raccoonpox virus Herman	98.14	0.35	118.62	1.30	111.61	6.75	77.80	11.84