

1 **Supplemental Figures & Legends**

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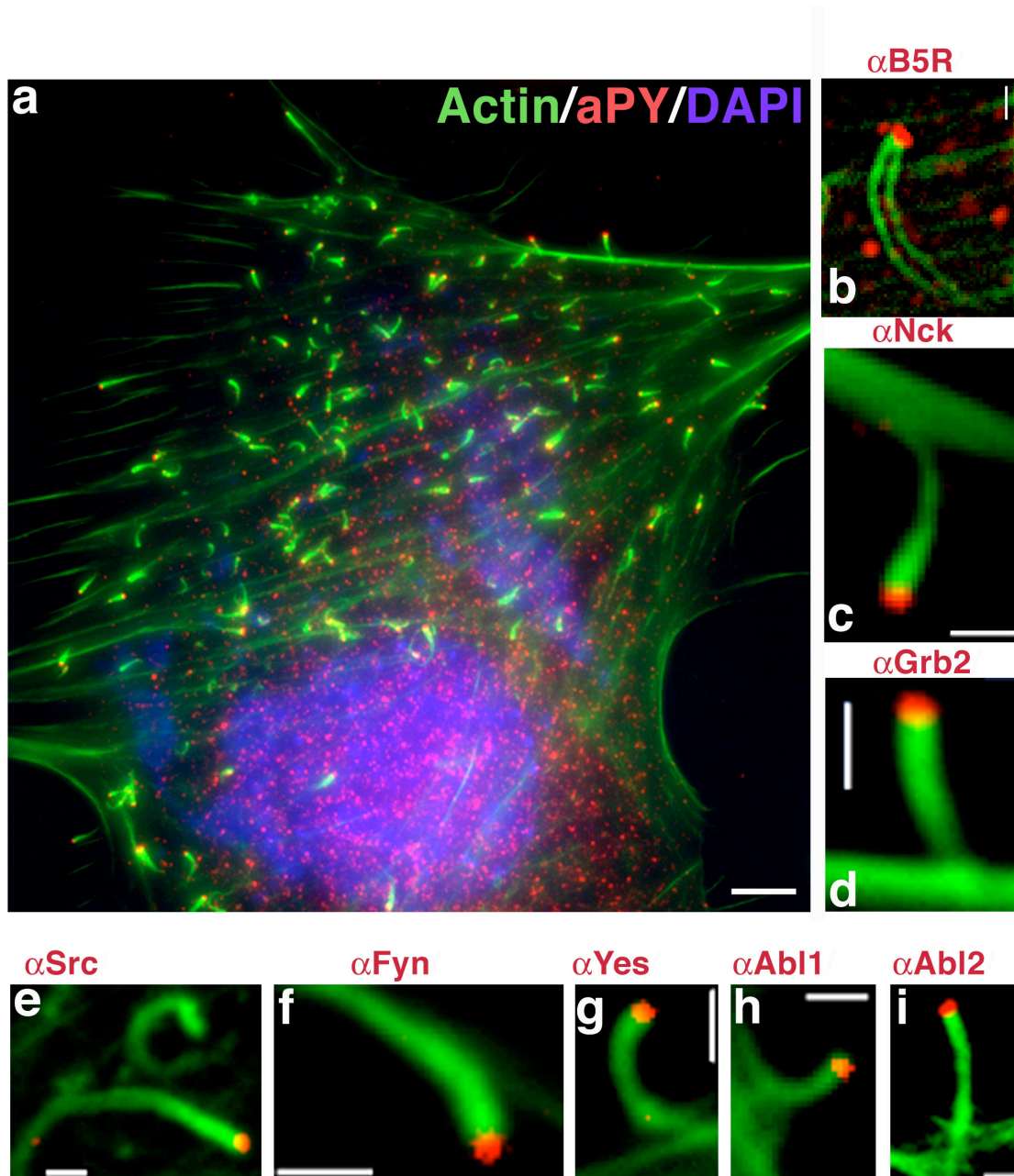
3 **Supplemental Figure 1.** (a) Image of 3T3 cell infected with MPX and stained with FITC-
4 phalloidin to visualize actin (green), pY mAb (red) and DAPI to visualize DNA (blue). (b-i)
5 Images of actin tails on 3T3 cells infected with VarV strain BSH or SLN stained with FITC-
6 phalloidin (green) and antibodies against cellular or viral proteins (red): (b) B5R mAb, (c) Nck
7 mAb, (d) Grb2 pAb, (e) Src pAb, (f) Fyn mAb, (g) Yes mAb, (h) Abl1 mAb, (i) Abl2 mAb. Scale
8 bars represent 5 μm (a) and 1 μm (b-i).

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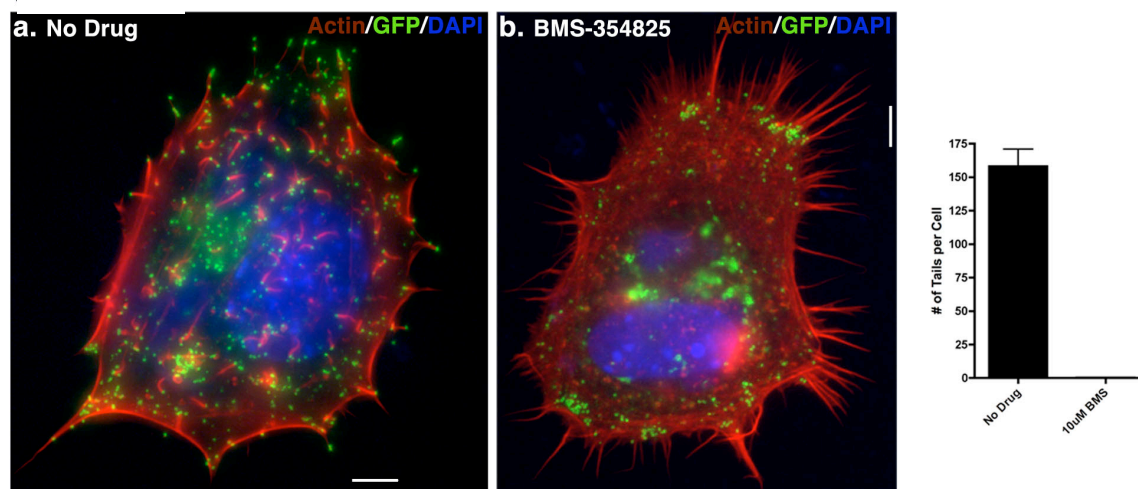
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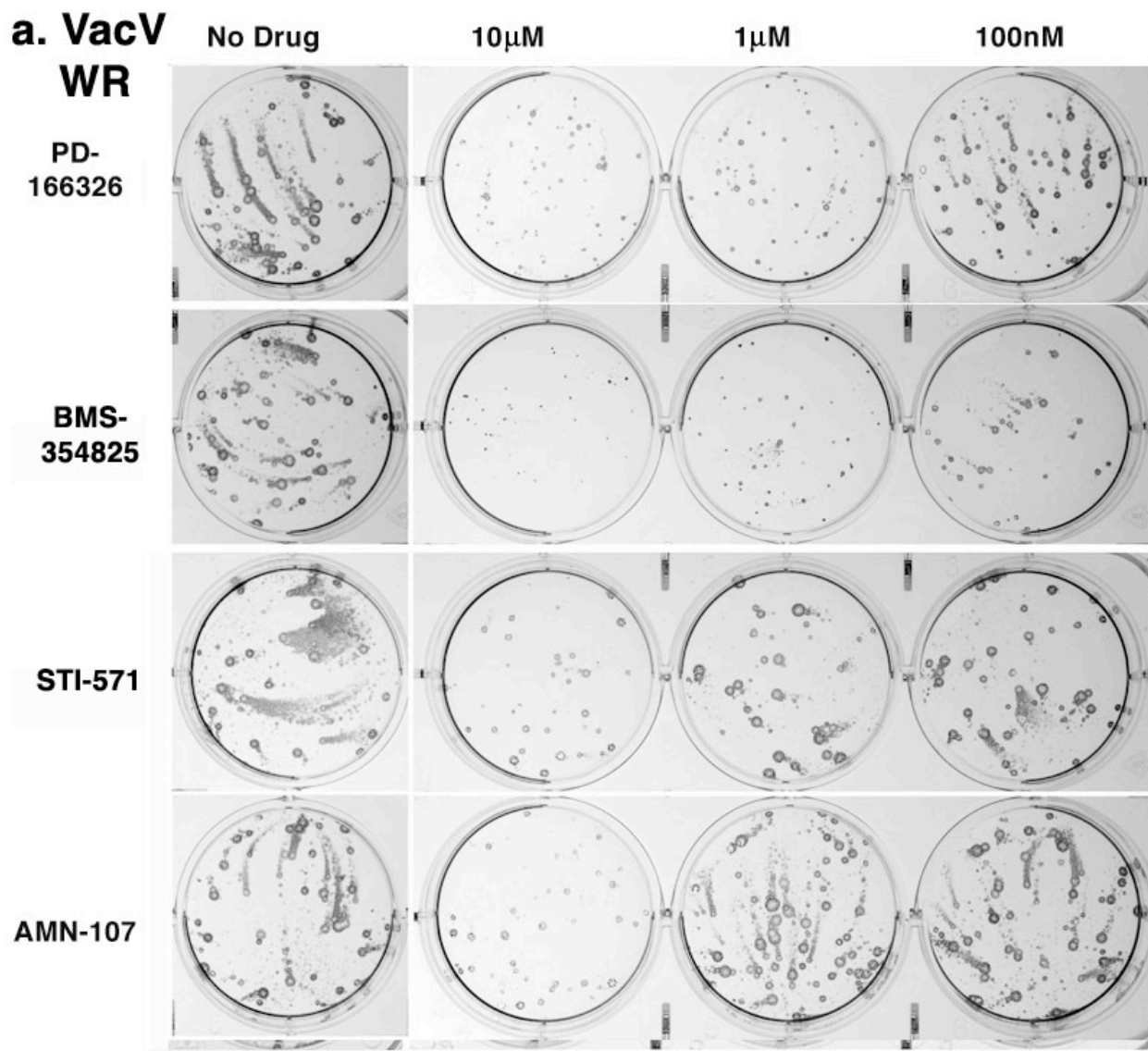


12 **Supplemental Figure 2. Sprycel blocks VacV actin tails.** (a–b) Images of 3T3 cells left
13 untreated (a) or treated with 10 μ M Sprycel (BMS354825) (b) and infected with VacV strain
14 B5R-GFP WR for 18 h, fixed, and stained with DAPI (blue), and Cy3-phalloidin (red) to
15 recognize actin. GFP is shown in green. Scale bars represent 5 μ m. Bar graph indicates
16 average number of GFP positive actin tails per cell in the presence or absence of 10 μ M Sprycel
17 (25 cells per condition).

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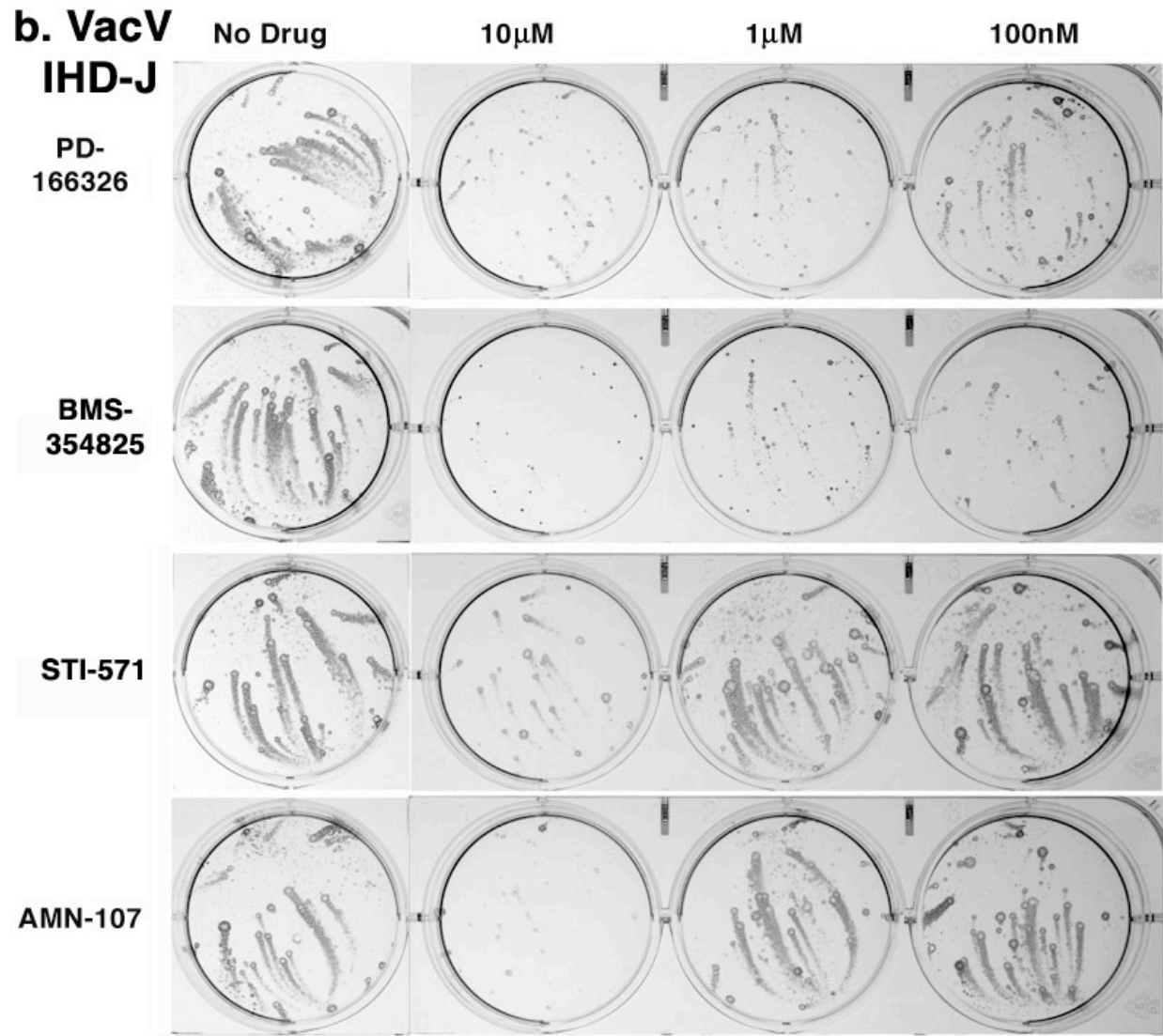


18 **Supplemental Figure 3. VacV comet assay.** BSC-40 cells were infected with VacV strain WR
19 (a) or VacV strain IHD-J (b). Cells were left untreated or treated with PD-166326, BMS-354825,
20 imatinib mesylate (STI-571), or nilotinib mesylate (AMN-107), each at 10 μ M, 1 μ M, or 100 nM.
21 Drugs were added 1 h after infection. Cells were incubated for 2 (VacV) or 3 (MPX) d, fixed, and
22 stained with VarV pAb or VacV L1R mAb to recognize infected cells.

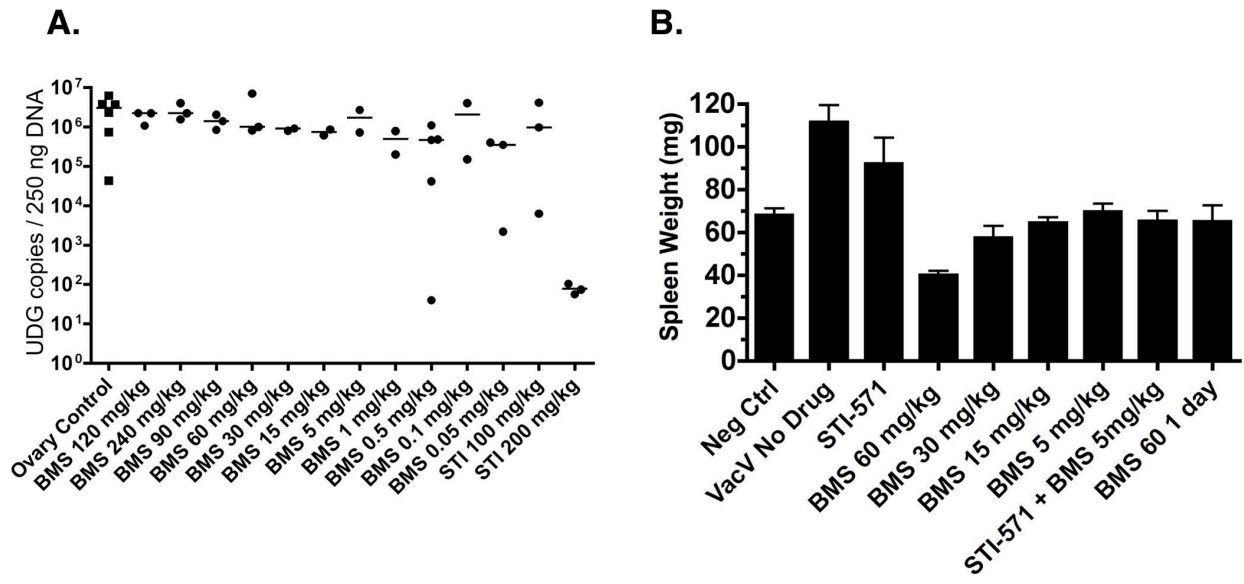


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**b. VacV
IHD-J**



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27 **Supplemental Figure 4. BMS-354825 *In Vivo*.** Quantification of viral genomes and spleen
 28 weight from VacV infected mice. (a) Mice received 0.05 to 240 mg/kg/d dasatinib (BMS-354825)
 29 or imatinib mesylate (STI-571; 100-200mg/kg/day) via osmotic pump and were infected IP with
 30 10⁴ PFU VacV IHD-J. Total number of viral genome copies was determined 4 d post infection.
 31 (b) Spleen weights were determined for mice left untreated or treated with various drugs.