

1 **Supplemental Data**

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3 **Dystonin/BPAG1 promotes plus-end directed transport of Herpes Simplex Virus 1**

4 **capsids on microtubules during entry**

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7 **Supplemental Legends**

8 **Supplemental Movie S1.** Capsid trafficking of vSR27-VP26GFP in shControl HFFF2 cells.

9 HFFF2 shControl cells were infected with 50 pfu/cell of vSR27-VP26GFP at 37°C. Starting  
10 45 minutes after infection, capsid trafficking was monitored at room temperature at 1  
11 frame/second for 60 seconds. The movie is shown at 10 frames/second. Frame is 48 µm by 55  
12 µm.

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14 **Supplemental Movie S2.** Capsid trafficking of vSR27-VP26GFP in shDyst HFFF2 cells.

15 HFFF2 shDyst cells were infected with 50 pfu/cell of vSR27-VP26GFP at 37°C. Starting 45  
16 minutes after infection, capsid trafficking was monitored at room temperature at 1  
17 frame/second for 60 seconds. The movie is shown at 10 frames/second. Frame is 54 µm by 34  
18 µm.

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20 **Supplemental Movie S3.** Capsid trafficking of vSR27-VP26GFP at the vicinity of the

21 centrosome of shControl HFFF2 cells. HFFF2 shControl cells were infected with 50 pfu/cell  
22 of vSR27-VP26GFP at 37°C. Starting 45 minutes after infection, capsid trafficking at the  
23 vicinity of the centrosome was monitored at room temperature at 1 frame/second for 60  
24 seconds. The movie is shown at 10 frames/second. Frame is 82 µm by 68 µm.

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26 **Supplemental Movie S4.** Capsid trafficking of vSR27-VP26GFP at the vicinity of the  
27 centrosome of shDyst HFFF2 cells. HFFF2 shDyst cells were infected with 50 pfu/cell of  
28 vSR27-VP26GFP at 37°C. Starting 45 minutes after infection, capsid trafficking at the  
29 vicinity of the centrosome was monitored at room temperature at 1 frame/second for 60  
30 seconds. The movie is shown at 10 frames/second. Frame is 47  $\mu\text{m}$  by 39  $\mu\text{m}$ .

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