

**Video 1. Apilimod doesn't inhibit VSV-MeGFP entry.** Maximal Z-projection from four optical sections separated 0.25  $\mu\text{M}$  apart of SVG-A cells gene-edited to express TagRFP-Rab5c imaged by spinning disc confocal microscopy every 3 seconds for 3 min. Cells were infected with VSV-MeGFP (MOI = 4) in the presence of CHX with or without 5  $\mu\text{M}$  Apilimod and imaged  $\sim$  3-4 h post-infection.

**Video 2. Apilimod inhibits VSV-MeGFP-ZEBOV entry.** Maximal Z-projection from four optical sections separated 0.25  $\mu\text{M}$  apart of SVG-A cells gene-edited to express TagRFP-Rab5c imaged by spinning disc confocal microscopy every 3 seconds for 3 min. Cells were infected with VSV-MeGFP-ZEBOV (MOI = 3) in the presence of CHX with or without 5  $\mu\text{M}$  Apilimod and imaged  $\sim$  6-7 h post infection.

**Video 3. Apilimod inhibits VSV-MeGFP-ZEBOV entry.** Maximal Z-projection from four optical sections separated 0.25  $\mu\text{M}$  apart of SVG-A cells gene-edited to express NPC1-Halo imaged by spinning disc confocal microscopy every 3 seconds for 3 min. Cells were infected with VSV-MeGFP-ZEBOV (MOI = 3) with or without 5  $\mu\text{M}$  Apilimod and imaged  $\sim$  5 h post infection.