

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Time-lapse series of Caco-2 cell polarization and lumen formation showing CD13-mCherry (magenta) and GFP-Par6 (green).

File Name: Supplementary Movie 2

Description: Time-lapse series of control (shScr) Caco-2 cells showing GFP-Rab11 (green) and phase-contrast during apical membrane initiation.

File Name: Supplementary Movie 3

Description: Confocal time-lapse series of CD13-depleted (shCD13-4) Caco-2 cells showing GFP-Rab11 (green) and phase-contrast during apical membrane initiation.