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Supplemental Material to:

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Distinct patterns of phosphatidylserine localization within the Rab11a-containing recycling system

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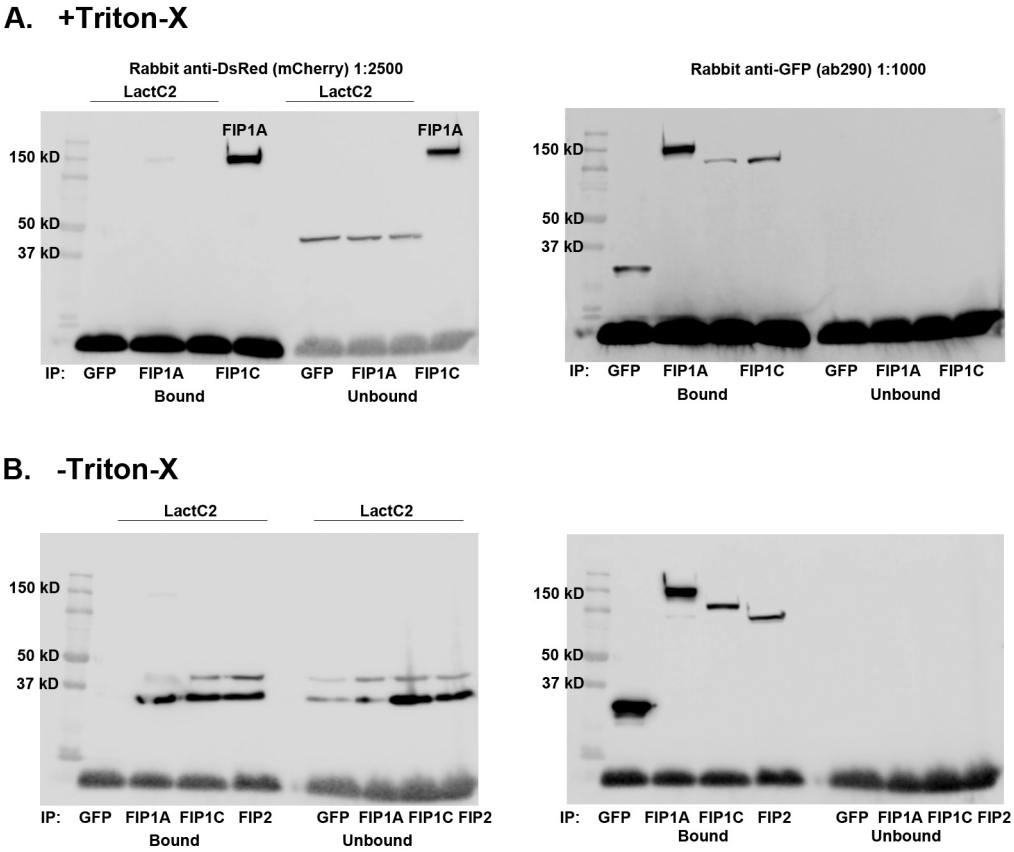
Supplemental Figure (S1): in this packet

Supplemental Video Legends for SV1, SV2, SV3: in this packet

Supplemental Video (SV1): http://www.landesbioscience.com/journals/cellularlogistics/article/28680-SV1.mov

Supplemental Video (SV2): http://www.landesbioscience.com/journals/cellularlogistics/article/28680-SV2.mov

Supplemental Video (SV3): http://www.landesbioscience.com/journals/cellularlogistics/article/28680-SV3.mov



Supplemental Figure S1. The mCherry-LactC2 is isolated with EGFP-Rab11-FIPs in the presence of intact membranes. Lysates from HEK cells expressing mCherry-LactC2 and EGFP-Rab11-FIPs (FIP1A, FIP1C, or FIP2) were analyzed by western blot for recovered mCherry-LactC2 following isolation of EGFP-Rab11-FIPs in the presence and absence of detergent. mCherry-LactC2 was recovered while membranes were left in tact, but introduction of detergent caused a loss of recovered LactC2 bound to EGFP-Rab11-FIPs.

Supplemental Video Legends

Supplemental Video SV1. EGFP-LactC2 and mCherry-Rab11a coordinated movement in live HeLa cells. HeLa cells transfected with EGFP-LactC2 were analyzed by time-lapse deconvolution microscopy. Frames were taken at least every 2 seconds for at least 1 minute and the display rates were set to 3 frames per second. Representative still images are presented in Figure 1. Panels from left to right: EGFP-LactC2, mCherry-Rab11a, and Merged.

Supplemental Video SV2. EGFP-Rab11-FIP1A and mCherry-LactC2 movement in live HeLa cells. HeLa cells transfected with EGFP-Rab11-FIP1A and mCherry-LactC2 were studied using time-lapse deconvolution microscopy. Frames were taken at least every 2 seconds for at least 1 minute and the display rates were set to 3 frames per second. Representative still images are presented in Figure 2. Panels from left to right: EGFP-Rab11-FIP1A, mCherry-LactC2, and Merged.

Supplemental Video SV3. Cerulean-Rab11-FIP3, Venus-Rab11-FIP1A, and mCherry-LactC2 movement in live HeLa cells. HeLa cells transfected with Cerulean-Rab11-FIP3, Venus-Rab11-FIP1A and mCherry-LactC2 were analyzed by time-lapse deconvolution microscopy. Frames were taken at least every 3 seconds for at least 1 minute and the display rates are set to 3 frames per second. Representative still images are presented in Figure 6. Panels (top-left to bottom-right): Cerulean-Rab11-FIP3, Venus-FIP1A, mCherry-LactC2, Venus-FIP1A and mCherry-LactC2, Cerulean-Rab11-FIP3 and mCherry-LactC2, and Merged.