Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Localization of lysosomes during DC migration in a confined 3D environment. BMDCs were labeled with 1 mM AcidiFluor ORANGE and stimulated with LPS for 2 h. Movement of DCs and AcidiFluor-positive lysosomes (magenta) in response to CCL19 (5 μ g/ml) in type I collagen gel (2 mg/ml) in a Zigmond chamber was observed at 1-min intervals by time-lapse video imaging.

File Name: Supplementary Movie 2

Description: Directional migration of WT DCs in response to CCL19 in a 2D environment. Horizontal migration of WT BMDCs in response to CCL19 (5 μ g/ml) in an EZTAXIScan device (slit size, 5 μ m) was visualized at 1-min intervals by time- lapse video imaging

File Name: Supplementary Movie 3

Description: Directional migration of Lamtor1–/– DCs in response to CCL19 in a 2D environment. Horizontal migration of Lamtor1–/– BMDCs in response to CCL19 (5 μ g/ml) in an EZ-TAXIScan device (slit size, 5 μ m) was visualized at 1-min intervals by time-lapse video imaging.

File Name: Supplementary Movie 4

Description: Motility of WT DCs in response to CCL19 in 3D collagen matrices. Movement of WT BMDCs in response to CCL19 (5 μ g/ml) in type I collagen gels (2 mg/ml) in a Zigmond chamber was observed at 1-min intervals by time-lapse video imaging

File Name: Supplementary Movie 5

Description: Motility of Lamtor1–/– DCs in response to CCL19 in 3D collagen matrices. Movement of Lamtor1–/– BMDCs in response to CCL19 (5 μ g/ml) in type I collagen gels (2 mg/ml) in a Zigmond chamber was observed at 1-min intervals by time-lapse video imaging