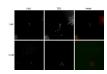
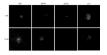
SUPPLEMENTAL MATERIAL

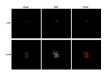
Hashimoto-Tane et al., http://www.jem.org/cgi/content/full/jem.20151088/DC1



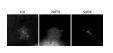
Video 1. **TCR-MCs transiently bordered by Pyk2 in the initial phase of activation.** TIRF videos of TCR (H57)–Dy549 and Pyk2–GFP in AND-tg T cells placed on 1 μ M or 10 nM Ag-loaded planer bilayer were taken at the rate of one frame per 5 s for 3 min. In the merged images, green and red show Pyk2–GFP and TCR, respectively. The fields of 18- μ m squares for each color or merged videos are arranged.



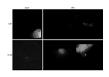
Video 2. **Different behaviors of ZAP70 and SLP76 clusters upon weak stimulation.** TIRF videos of TCR (H57)–Dy549, ZAP70–GFP, SLP76–GFP, and LAT–GFP in T cells placed on 1 μ M or 10 nM Ag–loaded planer bilayer were taken at the rate of one frame per 5 s for 6 min. The fields of 18- μ m squares for each color or merged videos are arranged.



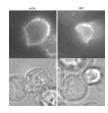
Video 3. **F-actin transiently accumulated at TCR-MCs in the initial phase of activation.** TIRF videos of TCR (H57)–Dy549 and Lifeact-GFP in T cells placed on 1 μM Ag-loaded planer bilayer were taken at the rate of one frame per 5 s for 5 min. In the merged images, green and red show Lifeact-GFP and TCRs, respectively. The fields of 18-μm squares for each color or merged videos are arranged.



Video 4. **Disappearance of SLP76 clusters and remaining TCR-MCs and ZAP70 clusters by CytD treatment.** TIRF videos of TCR (H57)–Dy549, ZAP70–GFP, and SLP76–GFP in T cells placed on the planar bilayer containing 1 μ M Ag taken at the rate of one frame per 5 s for 5 min. At the 11th frame, CytD was added at a final concentration of 10 μ M. The fields of 14.5- μ m squares are arranged.



Video 5. The unstable contacts and impaired IS formation of dKD cells on the planer bilayer. TIRF videos of TCR (H57)–Dy549 in shCtrl and dKD cells on 1 μ M or 10 nM Ag-loaded planer bilayer were taken at the rate of one frame per 5 s for 5 min. The fields of 22- μ m squares are arranged.



Video 6. The unstable contacts and impaired IS formation of dKD cells upon interaction with APCs. The videos of TCR (H57)–Dy549 and a differential interference contrast image in shCtrl and dKD cells with 1 μ M Ag–loaded activated B cells were taken at the rate of one frame per 10 s for 8.5 min. The fields of 14- μ m squares are arranged.

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