

Dynamics of CD80 in the T cell-dendritic cell synapse

Online Supplemental Material

Supplemental Movie 1. OT-II T cell and DC interaction.

OT-II Tg CD4⁺ T cells were added to overnight LPS/ α CD40 matured CD11c⁺ CD80-eCFP splenic DC pulsed with 5 μ M OVA. TCR was labeled with H57 Fab. This is an 11 min movie. CD80 is shown in green and TCR in red.

Supplemental qtvr 1. 3D view of T cell-DC IS corresponding to Figure 4A. anti-CD80 is shown in green, anti-TCR in red, and anti-LFA-1 in blue. The interface is demarcated by the numerous CD80 clusters interspersed with a few small TCR clusters. Some larger TCR clusters appear to be in invaginations to the side of the IS.

Supplemental qtvr 2. 3D view of T cell-DC IS corresponding to Figure 4B. CD80-eCFP is shown in green, anti-TCR in red, and anti-LFA-1 in blue. The T cell is interacting with a process from the DC and the DC body through a dense network of LFA-1 clusters interspersed with CD80-eCFP and TCR clusters.

Supplemental qtvr 3. 3D view of T cell-DC IS corresponding to Figure 6B 90s. CD80-eCFP is shown in green and anti-TCR Fab in red.

Supplemental qtvr 4. 3D view of T cell-DC IS corresponding to Figure 6B 210s. CD80-eCFP is shown in green and anti-TCR Fab in red. Comparison of qtvr 3 and 4 show how a TCR cluster appears to emerge in area that had previously been dominated by CD80 clusters.