Supplementary information

Figure 1:

Anti-ICAM-1 reduces the binding and motility of T-cells on LN slices. Ctla4^{+/+} CD4 positive T-cells were cultured and layered on LN slices in the presence or absence of anti-ICAM-1.

Figure 2:

Comparable expression of FoxP3 in DO11.10xCtla4^{+/+} and Ctla4^{-/-} CD4⁺CD25⁺ and CD4⁺CD25⁻ T-cells. Pre-activated DO11.10xCtla4^{+/+} CD4⁺T-cells were stained with FoxP3-Fitc and CD25-APC (upper panel) and DO11.10xCtla4^{-/-} CD4⁺T-cells with Foxp3-APC and CD25-PE (lower panel).

Movies:

Movie 1: Movies of the movement of Ctla4^{-/-} and Ctla4^{+/+} DO11.10 T-cells and their interaction with DCs in the absence and presence of OVA peptide on lymph node slices. Green: T-cells; red: DCs. Upper left: CD4⁺ Ctla4^{-/-} DO11.10 T-cells with DCs; lower left: CD4⁺ Ctla4^{-/-} DO11.10 T-cells with DC-OVA. Upper middle: CD4⁺ Ctla4^{+/+} DO11.10 T-cells with DCs; lower middle: CD4⁺ Ctla4^{-/-} DO11.10 T-cells with DC-OVA. Upper right: CD4⁺ Ctla4^{-/-} DO11.10 T-cells transfected with CTLA-4 with DCs; lower right: CD4⁺ Ctla4^{-/-} DO11.10 T-cells transfected with CTLA-4 with DC-OVA.

Movie 2: Movies of the movement of Ctla4^{+/+} CD4⁺ CD25⁻ and CD4⁺ CD25⁺ DO11.10 T-cells and their interaction with DCs in the absence and presence of OVA peptide on lymph node slices. Green: T-cells; red: DCs. Upper left: CD4⁺CD25⁻ with DCs; upper right: CD4⁺CD25⁻ with DC-OVA. Lower left: CD4⁺CD25⁺ with DCs; lower right: CD4⁺CD25⁺ with DC-OVA.

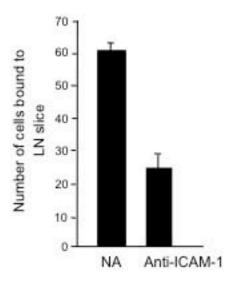
Movie 3: Movies of the movement of Ctla4^{-/-} CD4⁺ CD25⁻ and CD4⁺ CD25⁺ DO11.10 T-cells and their interaction with DCs in the absence and presence of OVA peptide on lymph node

slices. Green: T-cells; red: DCs. Upper left: CD4⁺CD25⁻ with DC; upper right: CD4⁺CD25⁻ with DC-OVA. Lower left: CD4⁺CD25⁺ with DC; lower right: CD4⁺CD25⁺ with DC-OVA.

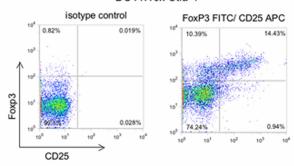
Movie 4: Movies of the movement of Cd28^{+/+} CD4⁺ CD25⁻ and CD4⁺ CD25⁺ DO11.10 T-cells and their interaction with DCs in the absence and presence of OVA peptide on lymph node slices. Green: T-cells; red: DCs. Upper left: CD4⁺CD25⁻ with DCs; upper right: CD4⁺CD25⁻ with DC-OVA. Lower left: CD4⁺CD25⁺ with DCs; lower right: CD4⁺CD25⁺ with DC-OVA.

Movie 5: Movies of the movement of Cd28^{-/-} CD4⁺ CD25⁻ and CD4⁺ CD25⁺ DO11.10 T-cells and their interaction with DCs in the absence and presence of OVA peptide on lymph node slices. Green: T-cells; red: DCs. Upper left: CD4⁺CD25⁻ with DCs; upper right: CD4⁺CD25⁻ with DC-OVA. Lower left: CD4⁺CD25⁺ with DCs; lower right: CD4⁺CD25⁺ with DC-OVA.

SFig.1



DO11.10x Ctla-4+/+



DO11.10x Ctla-4-/-

