

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 DO11.10x $Ctla4^{+/+}$ and $Ctla4^{-/-}$ CD4⁺CD25⁺ and CD4⁺CD25⁻ T-cells. Pre-activated DO11.10x $Ctla4^{+/+}$ CD4⁺T-cells were stained with FoxP3-Fitc and CD25-APC (upper panel) and DO11.10x $Ctla4^{-/-}$ 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



