Supplementary Video descriptions

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Dynamic regulation of the molecular mechanisms of regulatory T cell migration in inflamed skin
Supplementary Video 1: Alterations in intradermal regulatory T cell migration during contact sensitivity. Sequence of videos from multiphoton intravital microscopy (MP-IVM) experiments in Foxp3-GFP mice showing regulatory T cells (Tregs – green) in the dermis of untreated skin, and 24 h, 48 h, 72 h and 6 d after induction of contact sensitivity response. Dermal collagen (blue) is visible via second harmonic generation (SHG). Each sequence represents ~ 30 min observation time. Yellow – hair follicles. Scale bar = 40 µm.

Supplementary Video 2: Alterations in intradermal regulatory T cell migration during contact sensitivity, with Treg migration paths. Sequence of videos from MP-IVM experiments in Foxp3-GFP mice showing Tregs (green) in the dermis of untreated skin, and 24 h, 48 h, 72 h and 6 d after induction of contact sensitivity. Tracks showing migration paths of migratory Tregs have been included. Dermal collagen (blue) is visible via second harmonic generation (SHG). Each sequence represents ~ 30 min observation time. Yellow – hair follicles. Scale bar = 40 µm.

Supplementary Video 3: Effect of RGD peptide on intradermal Treg migration in contact sensitivity. Videos from MP-IVM experiments in which Foxp3-GFP mice (Tregs – green) were treated with either control (RAD) peptide (left panel) or RGD peptide (right panel), prior to imaging 24 & 48 h after induction of contact sensitivity. Treg migration paths are included. Dermal collagen (blue) is visible via second harmonic generation (SHG). Each sequence represents ~ 30 min observation time. Yellow – hair follicles. Scale bar = 40 µm.

Supplementary Video 4: Effect of αv integrin inhibition on intradermal Treg migration in contact sensitivity. Videos from MP-IVM experiments in which Foxp3-GFP mice (Tregs – green) were treated with either isotype control antibody (left panel) or anti-αv integrin (right panel), prior to imaging 24 & 48 h after induction of contact sensitivity. Treg migration paths are included. Dermal collagen (blue) is visible via second harmonic generation (SHG). Each sequence represents ~ 30 min observation time. Yellow – hair follicles. Scale bar = 40 µm.

Supplementary Video 5: Effect of PI3K p110δ inhibition on intradermal Treg migration in contact sensitivity. Videos from MP-IVM experiments in which Foxp3-GFP mice (Tregs – green) were treated with either vehicle control (left panel) or PI3K p110δ inhibitor IC87114 (right panel), prior to imaging 24 h after induction of contact sensitivity. Treg migration paths are included. Dermal collagen (blue) is visible via second harmonic generation (SHG). Each sequence represents ~ 30 min observation time. Yellow – hair follicles. Scale bar = 40 µm.